

SHARP SERVICE MANUAL

S93B5QT-90ZR/



QT-90ZR
QT-90ZG



PHOTO : QT-90ZG

In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT,
PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

Power source:	AC110V – 127V and 220V – 240V, 50/60Hz DC 12V (UM/SUM-1 or R20 type x 8, or external 12V DC)	Signal/noise ratio:	55 dB (Deck 1, playback) 50 dB (Deck 2, recording)
Output power: (DIN 45 324)	PMPO; 25W (12.5W + 12.5W) (AC operation) MPO; 20W (10W + 10W) (AC operation) RMS; 10W (5W + 5W) (DC operation 10% distortion)	Input impedance:	Mixing mic; 600 ohms Phono/line in; 50 kohms/200 kohms
Semiconductors:	15 ICs 26 transistors 51 diodes 9 LEDs	Loaded impedance:	Headphones; 8 ohms – 32 ohms External speakers; 3 ohms – 8 ohms Line out; 0.65V/50 kohms
Dimensions:	Width; 589 mm (23-7/32") Height; 157 mm (6-3/16") Depth; 170 mm (6-11/16")	RADIO	Frequency range: AM; 526.5 kHz – 1606.5 kHz SW ₁ ; 2.3 MHz – 7.3 MHz SW ₂ ; 7.3 MHz – 22 MHz FM; 87.6 MHz – 108 MHz
Weight:	5.4 kg (11.9 lbs.) without batteries	SPEAKER	Speakers: 10 cm (4") free-edge woofer x 2 Horn type tweeter x 2
TAPE RECORDER		Impedance:	3 ohms
Tape:	Compact cassette tape	Input:	13W (maximum)
Frequency response:	40Hz – 14,000Hz (normal tape) 40Hz – 15,000Hz (CrO ₂ tape) 40Hz – 16,000Hz (metal tape)	Specifications for this model are subject to change without prior notice.	

DIAL CORD STRINGING

- 1) Turn the drum fully clockwise and stretch its cord over the parts in the numerical order – as shown in Figure 2 – 1.
- 2) Turn the tuning control shaft fully counterclockwise, and fix it with the pointer aligned with the zero (0) point on the frame. See Figure 2 – 2.

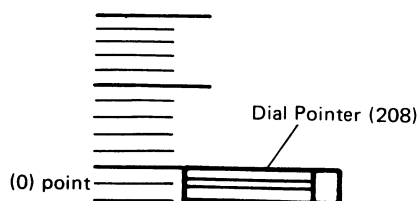


Figure 2-2

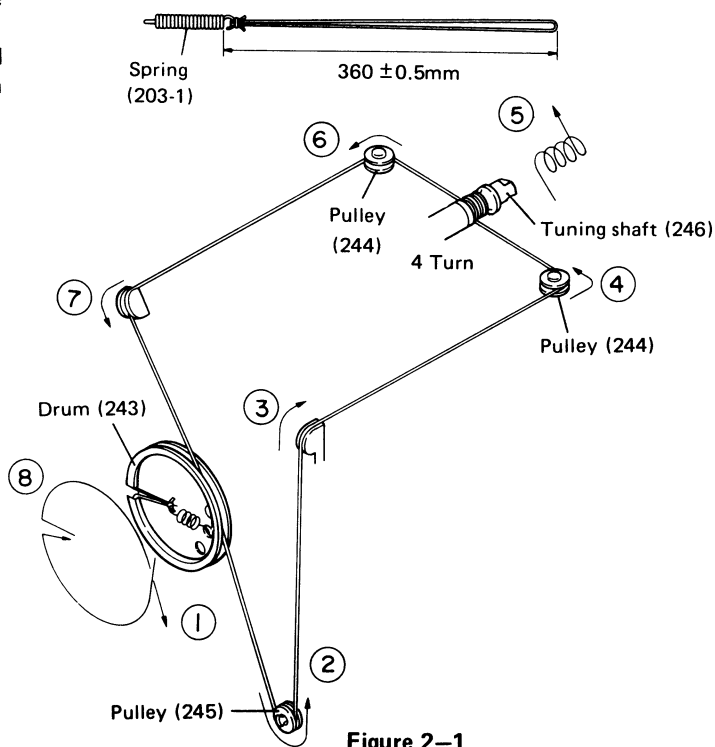


Figure 2-1

NAMES OF PARTS

- | | |
|---|--------------------------------------|
| 1. Deck 1 Cassette Compartment | 25. Deck 2 Fast-forward/Cue Button |
| 2. Deck 2 Cassette Compartment | 26. Deck 2 Stop/Eject Button |
| 3. Level Meter | 27. Deck 2 Pause Button |
| 4. Digital Tape Counter and Reset Button | 28. Power Switch |
| 5. Tuning Control | 29. Function Selector Switch |
| 6. Fine Tuning Control | 30. FM Mode Selector Switch |
| 7. Headphones Jack | 31. Deck 1 Tape Selector Switch |
| 8. Volume Control | 32. Deck 2 Tape Selector Switches |
| 9. Balance Control | 33. Dubbing Speed Selector Switch |
| 10. Graphic Equalizer Controls | 34. APPS Set/Clear Switch |
| 11. APPS End Pause Indicator | 35. Mixing Microphone Jack |
| 12. Band Selector | 36. Speaker Lock/Release Knob |
| 13. APPS Indicator | 37. FM/SW Telescopic Rod Antenna |
| 14. FM Stereo Indicator | 38. AC Power Supply Socket |
| 15. Power Indicator | 39. External DC Power Supply Socket |
| 16. Deck 1 Play Button | 40. Battery Compartment |
| 17. Deck 1 Rewind Reverse APSS Button | 41. Speaker Cord Holder |
| 18. Deck 1 Fast-forward Forward APSS Button | 42. External Speaker Jack |
| 19. Deck 1 Stop/Eject Button | 43. Line Output Jacks |
| 20. Deck 1 Pause Button | 44. Phono/Line Input Selector Switch |
| 21. Dubbing Start Button | 45. Phono/Line Input Jacks |
| 22. Deck 2 Record Button | 46. Ground Terminal |
| 23. Deck 2 Play Button | 47. Beat Cancel Switch |
| 24. Deck 2 Rewind/Review Button | |

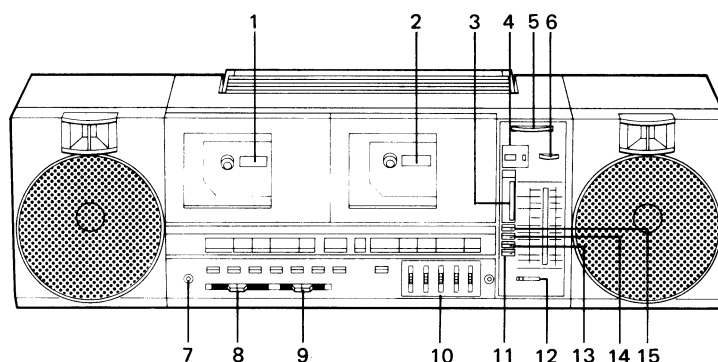


Figure 3 – 1

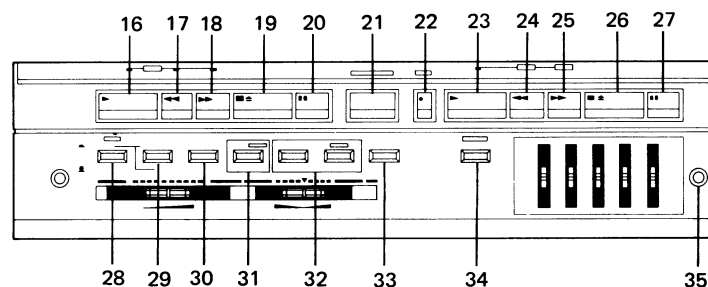


Figure 3 – 2

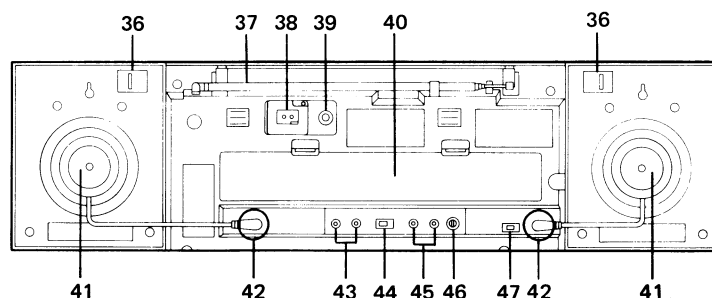


Figure 3 – 3

DISASSEMBLY

Caution:

Since this model employs the Power Assist Drive (PAD) mechanism, be sure to replace the record/playback head to its original position prior to the disassembly. And remove the power supply cord plug, cassette tape and batteries from the unit.

Step	Parts to be removed	Removal	Pcs.	Figure
Main body section;				
1	Front cabinet	Battery compartment lid (A)	1	4—1
		Screw (B), (C)	4, 2	
		Tip (D)	1	4—2
2	Machanism block	Tape counter drive belt (E)	1	4—2
		Screw (F)	6	
		Socket (G)	4	
3	Main P.W.B.	Tip (H)	1	4—3
		Socket (I)	1	
		Wire lead (J) *1	1	
		Screw (K) *2	4	
Speaker section:				
1	Rear cabinet	Screw (L)	4	4—4
		Screw (M)	1	
		Speaker cord holder(N)	1	
		Tip (O)	2	

*1: Unsolder the wire lead.

*2: To remove the screws (K), remove the tuning knob (P) and bracket (Q) beforehand.

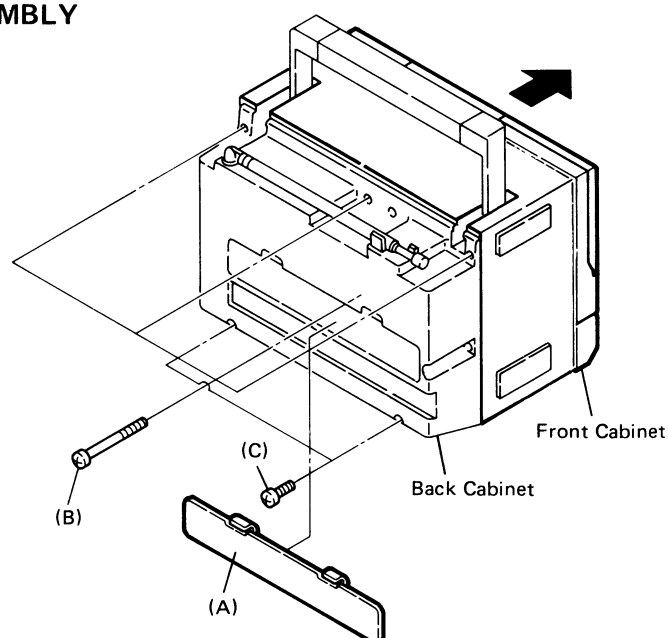


Figure 4 - 1

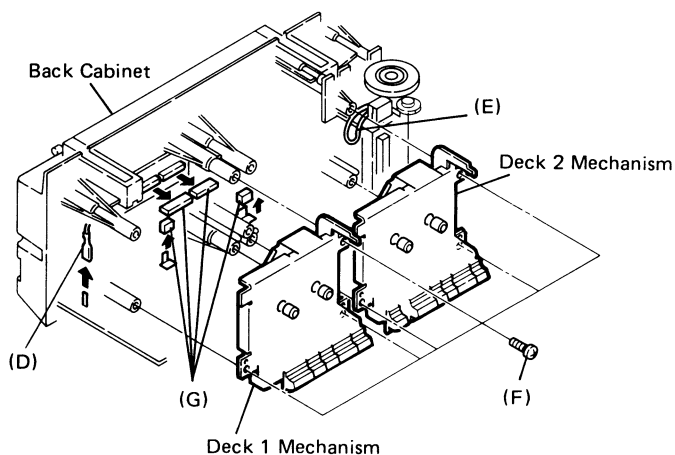


Figure 4 - 2

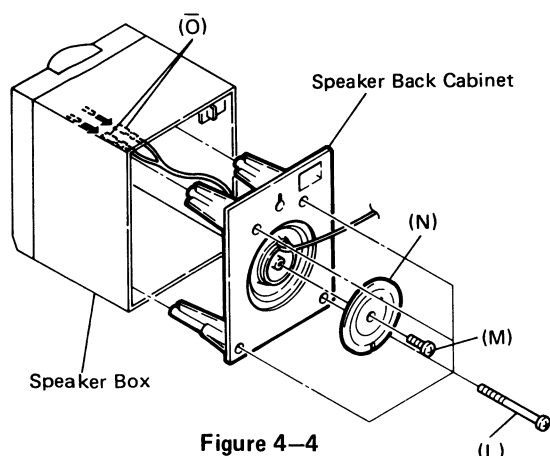


Figure 4-4

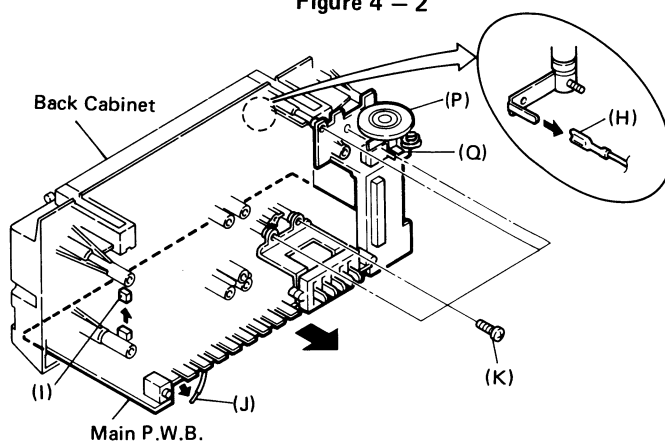


Figure 4 - 3

VOLTAGE SELECTION

Before operating the unit on mains, check the preset voltage. If the voltage is different from your local voltage, adjust the voltage as follows: Slide the AC power supply socket cover by a little loosening screw to the visible indication of the side of your local voltage. See Figure 4 - 5.

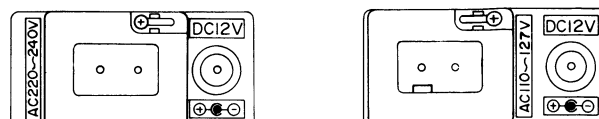


Figure 4-5

TAPE TENSION CHECK

1. Put a tape tension measuring cassette (TW-2412) into the unit.
2. See that the tape tension measured is more than 150 g-cm.

TORQUE CHECK AT PLAY, FAST FORWARD AND REWIND MODES

Put a torque meter cassette in the cassette compartment of the set, and see that the measured torque in each mode is normal as shown in Table 6.

Mode	Torque meter cassette	Measured torque
Playback	TW-2111	35 ~ 60 g-cm
Fast-forward	TW-2231	90 ~ 135 g-cm
Rewind	TW-2231	90 ~ 135 g-cm

Table 6

TAPE SPEED ADJUSTMENT

Caution:

Perform the high speed adjustment first and then the normal speed adjustment; if the order is reversed, the normal speed once adjusted will be affected by the following high speed adjustment.

Step	Tape speed	Test tape	Deck 1		Deck 2	
			Frequency	Adjustment	Frequency	Adjustment
Connect wow/flutter meter to the line output socket, make TP801 (test pin) shorted with earth to get the unit in the high speed mode.						
1	High	MTT-118 (1 kHz)	1980 \pm 10 Hz	VR801	Within \pm 10 Hz different from that of Deck 1	VR802
Remove the shortcircuit of TP801.						
2	Normal	MTT-111 (3 kHz)	2970 \pm 15 Hz	VR803	Within \pm 15 Hz different from that of Deck 1	VR804

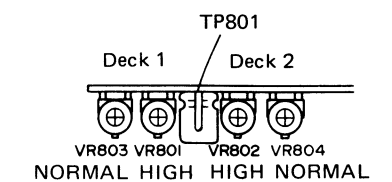


Figure 6-1

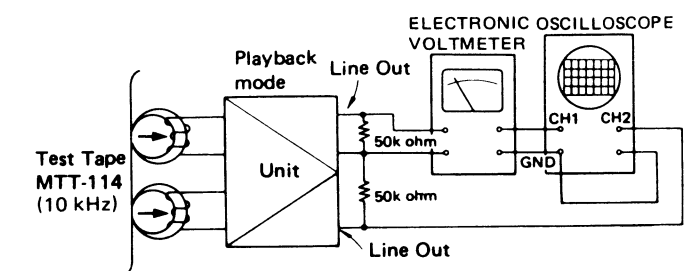


Figure 6-2

RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

1. Connect instruments as shown in Fig. 6-2.
2. Set the dubbing speed selector switch SW202 to the normal position and deck 2 tape selector switch SW204 to normal position.
3. Play a test tape (TEAC, MTT-114, 10kHz, 250pWb/mm, -10 dB prerecorded).
4. Adjust the head azimuth adjusting screw so that sine wave-form attains the maximum.

ELECTRICAL ADJUSTMENT

BIAS OSCILLATOR FREQUENCY CHECK

1. Connect instruments as shown in Fig. 6-3.
 2. Set the power switch SW208 to tape and the beat cancel switch SW251 to A position.
 3. Place the unit in record mode, and see that the frequency counter reads 92 ± 5 kHz.
- Changing the beat cancel switch from A to B position, see that the frequency counter reading changes by $+4 \sim 6$ kHz from the previous value 92 ± 5 kHz: and with the beat cancel switch set at C position, see that it changes by $-3.0 \sim 5$ kHz from previous value 92 ± 5 kHz.

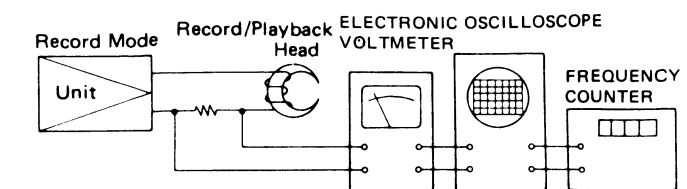


Figure 6-3

PLABACK AMPLIFIER SENSITIVITY CHECK

1. Connect instruments as shown in Figure 6-4.
2. Set the power switch SW208 to tape and the deck 2 tape selector switch SW204 to normal, the volume control knob at max, and the graphic equalizer control knobs to 0 position.
3. Playback a test tape (TEAC MTT-118, 1kHz, 250 pWb/mm, -10 dB prerecorded).
4. See that the electronic voltmeter is reading about 1.8V.

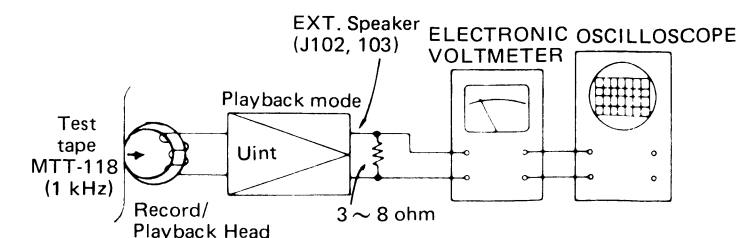
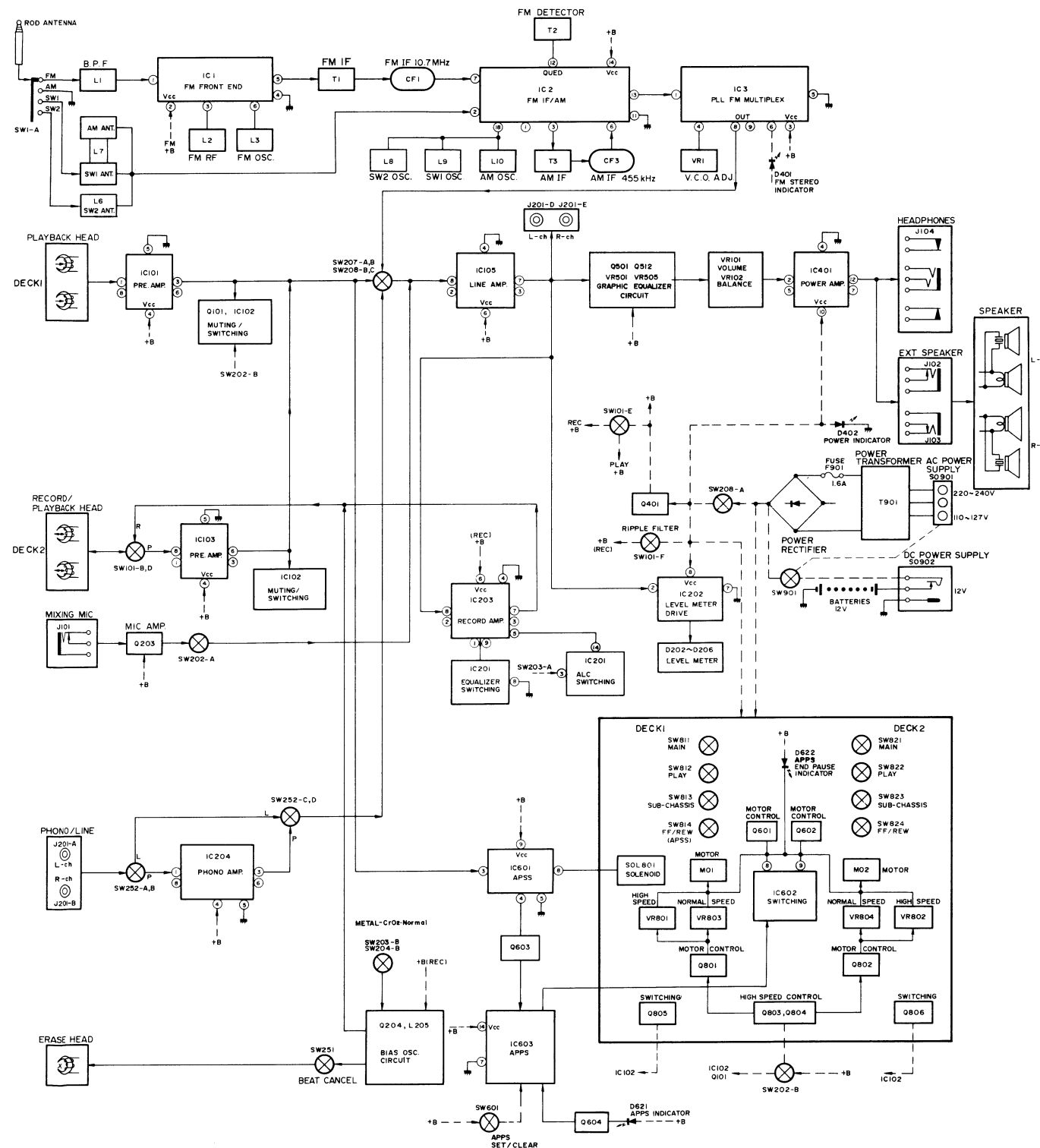


Figure 6-4



GENERAL ADJUSTMENT INSTRUCTION

Should it become necessary at any time to check the alignment of this receiver, proceed as follows;

- 1. Set the volume control to maximum.
- 2. Attenuate the signals from the generator enough to swing the most sensitive range of the output meter.
- 3. Use a non-metallic alignment tool.
- 4. Repeat adjustments to insure good results.
- 5. Set the function selector switch to radio position.

Note A

Check the alignment of the receiver antenna coil by bringing a piece of ferrite (such as a coil slug) near the antenna loop stick, then a piece of brass. If ferrite increases output, loop requires more inductance. If brass increases output, loop requires less inductance. Change loop inductance by sliding the bobbin toward the center of ferrite core to increase inductance, or away to decrease inductance.

AM IF/RF ALIGNMENT

- Set the signal generator to produce a signal of 400Hz, 30%, AM modulated.
- For adjustments in steps 4 and 9, see Note A .

STEP	BAND	TEST STAGE	FRE- QUEN- CY	DIAL SET- TING	ADJUST- MENT	REMARKS
IF (Connect instruments as shown in Figure 7-1.)						
1	AM	IF	455kHz	High end of dial	T3	Adjust for best "IF" curve
RF (Connect instruments as shown in Figure 7-2.)						
2	AM	Band cover- age	510kHz	Low end of dial	L10	Adjust for maximum output
3	AM		1650 kHz	High end of dial	TC8	
4	AM	Track- ing	600kHz	600 kHz	L7	
5	AM		1400 kHz	1400 kHz	TC5	
6	Repeat steps 2,3,4 and 5 until no further improvement can be made.					
RF (Connect instruments as shown in Figure 7-3.)						
7	SW ₁	Band cover- age	2.25 MHz	Low end of dial	L9	Adjust for maximum output
8	SW ₁		7.4MHz	High end of dial	TC7	
9	SW ₁	Track- ing	2.6MHz	2.6MHz	L7	
10	SW ₁		6.0MHz	6.0 MHz	TC4	
11	Repeat steps 7,8,9 and 10 until no further improvement can be made.					
12	SW ₂	Band cover- age	7.2MHz	Low end of dial	L8	Adjust for maximum output
13	SW ₂		22.5 MHz	High end of dial	TC6	
14	SW ₂	Track- ing	8.5MHz	8.5 MHz	L6	
15	SW ₂		19MHz	19 MHz	TC3	
16	Repeat steps 12, 13, 14 and 15 until no further improvement can be made.					

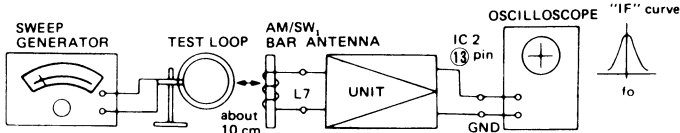


Figure 7-1 AM IF

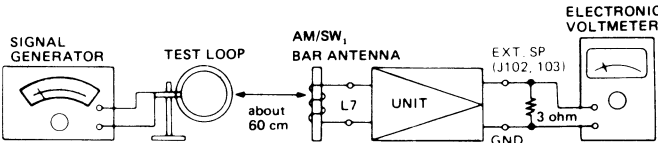


Figure 7-2 AM RF

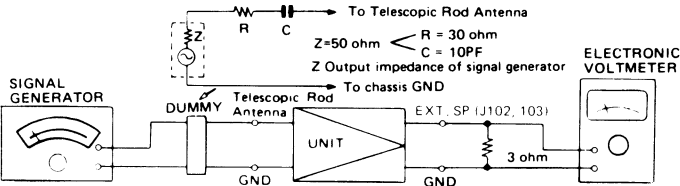


Figure 7-3 SW RF

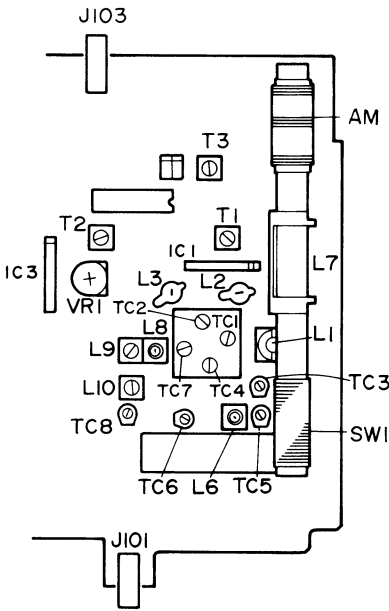


Figure 7-4 Adjustment Points

FM IF/RF ADJUSTMENT

- Set the signal generator to produce a signal of 400Hz, 30%, FM modulated.

STEP	BAND	TEST STA- GE	FRE- QUEN- CY	DIAL SET- TING	AD- JUST- MENT	REMARKS
IF (Connect instruments as shown in Figure 8-1.)						
1	FM	IF	10.7 MHz	High end of dial	T1 T2	Adjust for best "S" curve
RF (Connect instruments as shown in Figure 8-2.)						
2	FM	Band cover- age	87.1 MHz	Low end of dial	L3	Adjust for maximum output
3	FM		109 MHz	High end of dial	TC2	
4	FM	Track- ing	88 MHz	88 MHz	L2	
5	FM		108 MHz	108 MHz	TC1	
6	Repeat steps 2,3,4 and 5 until no further improvement can be made.					

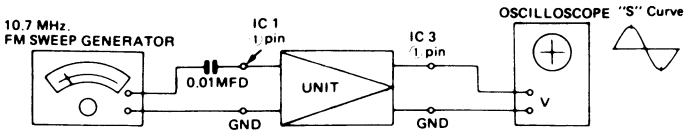


Figure 8-1 FM IF

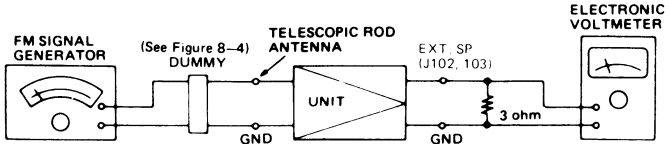


Figure 8-2 FM RF

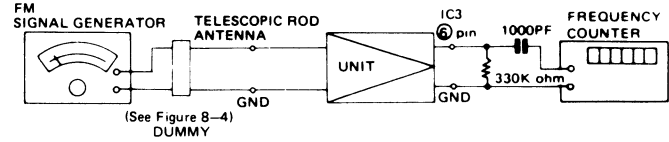


Figure 8-3 FM STEREO

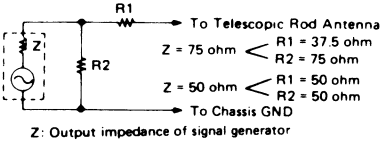


Figure 8-4 FM DUMMY

FM STEREO ADJUSTMENT

- Set the band selector switch to FM position and FM mode selector switch to stereo position.
- Before this adjustment, connect the anode side of stereo indicator (D401) to GND.
- Connect instruments as shown in Figure 8-3 and 8-4.

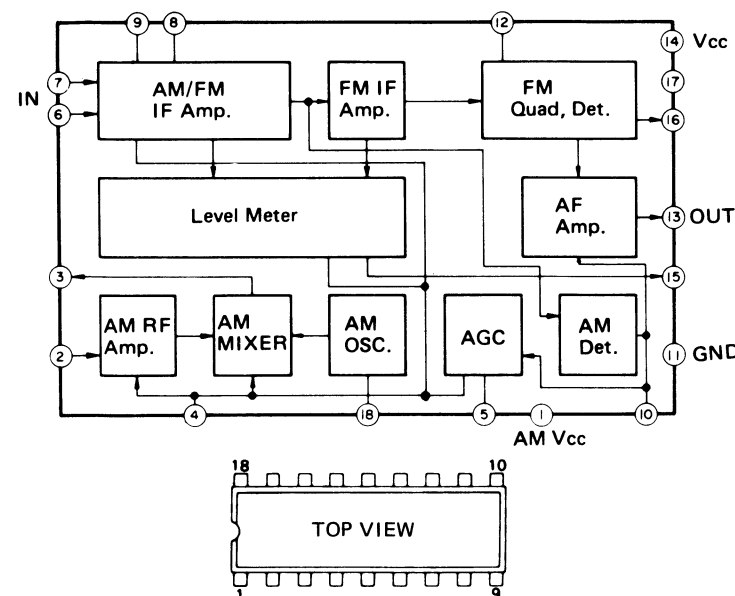
FREQUENCY	DIAL POINTER	ADJUSTMENT	REMARKS
98MHz (54dB) un modulated	98MHz	VR1	Adjust for 38 ± 0.1kHz

AC POWER SUPPLY CORD

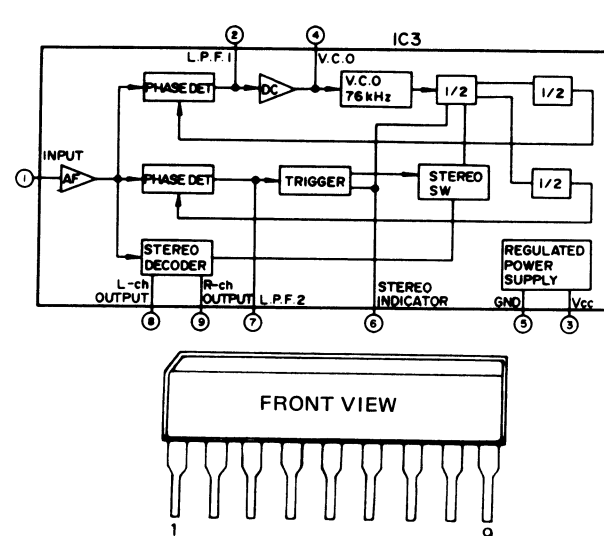
QACCL0050AF00	QACCZ0051AF00	QACCZ0057AF00

QT-90ZR/ZG QT-90ZR/ZG

IC2: VHIAN7224/-1 (AN7224)



IC3: VHITA7343P/-1 (TA7343P)



NOTES ON SCHEMATIC DIAGRAM

- The voltage in each part is measured with no signal given.
- As for the tuner circuit, the voltage indication without parentheses is in FM stereo mode, and that with parentheses is in AM/SW₁/SW₂ mode.
- As for the audio circuit, the voltage indication is in play mode at normal speed; the voltage indication with parentheses is in record mode at normal speed.
- Unless otherwise specified, resistors are shown in ohm, K (1000 ohm), M (1000K ohm), and 1/4W type.

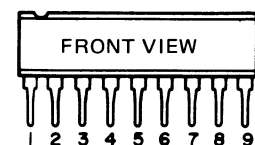
Capacitor:

- Unless otherwise specified capacitors are shown in microfarads, P = Picofarads
- (CH), (RH): Temperature compensation
- (P P): Polypropylene type
- (ML): Mylar type
- (ST): Styrol type

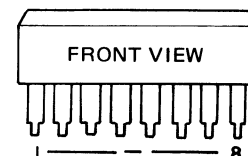
Parts marked "△" () are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

Specifaions or schematic diagrams of this model are subject to change for improvement without prior notice.

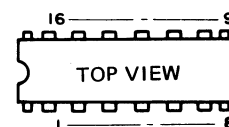
IC1: VHIBA4402/-1 (BA4402)
IC601: VHIBA3706/-1 (BA3706)



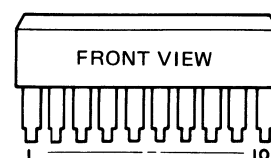
IC101, 103, 204: RH-IX1079AFZZ (M51521L)



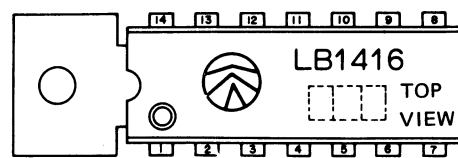
IC102, 201: VHITD62504/-1 (TD62504)



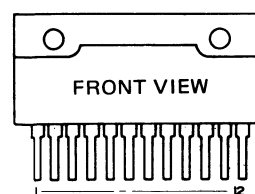
IC105/203: VHIM51544L/-1 (M51544L)



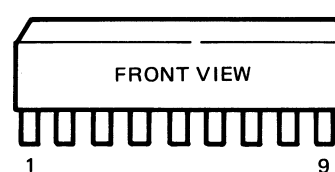
IC202: VHILB1416/-1 (LB1416)



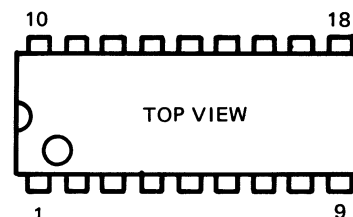
IC401: VHIHA1392/-1 (HA1392)



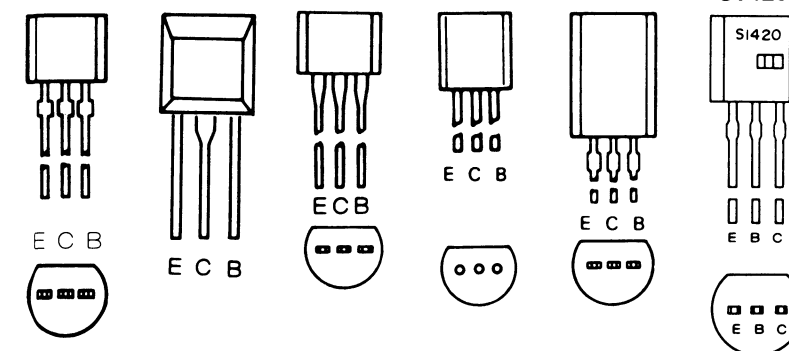
IC602: VHITD62554/-1 (TD62554)



IC603: RH-IX1144AFZZ (TC4001BP)



2SA1015 GR 2SD471 L 2SC1815 GR 2SC2001 K 2SB562 C S1420



E: EMITTER
C: COLLECTOR
B: BASE

D202 ~ 206



D401, 402, 621, 622

Included
RH-PX1058AFSA



1: ANODE
2: CATHODE

REF. NO.	DESCRIPTION	SWITCH POSITION
SW1	Band Selector	<u>FM</u> -AM-SW ₁ -SW ₂
SW101	Record/Playback Selector	<u>RECORD</u> -PLAYBACK
SW202	Dubbing Speed Selector	<u>HIGH</u> -NORMAL
SW203	Deck 2 Tape Selector	<u>NORMAL</u> /CrO ₂ -METAL
SW204	Deck 2 Tape Selector	<u>NORMAL</u> -CrO ₂
SW205	Deck 1 Tape Selector	<u>NORMAL</u> -CrO ₂ /METAL
SW206	FM Mode	<u>MONO</u> -STEREO
SW207	Function Selector	<u>RADIO</u> -LINE/PHONO
SW208	Power	<u>RADIO</u> -LINE/PHONO - OFF/TAPE
SW251	Beat Cansel	A - B - <u>C</u>
SW252	Input Selector	<u>LINE IN</u> -PHONO
SW601	APPS Set/Clear	ON - <u>OFF</u>
SW811	Deck 1 Main	ON - <u>OFF</u>
SW812	Deck 1 Play	ON - <u>OFF</u>
SW813	Deck Sub-chassis	ON - <u>OFF</u>
SW814	Deck 1 Fast-forward/Rewind (APSS)	ON - <u>OFF</u>
SW821	Deck 2 Main	ON - <u>OFF</u>
SW822	Deck 2 Play	ON - <u>OFF</u>
SW823	Deck 2 Sub-chassis	ON - <u>OFF</u>
SW824	Deck 2 Fast-forward/Rewind	ON - <u>OFF</u>
SW901	AC/DC Selector	AC - <u>DC</u>

QT-90ZR/ZG	QT-90ZR/ZG
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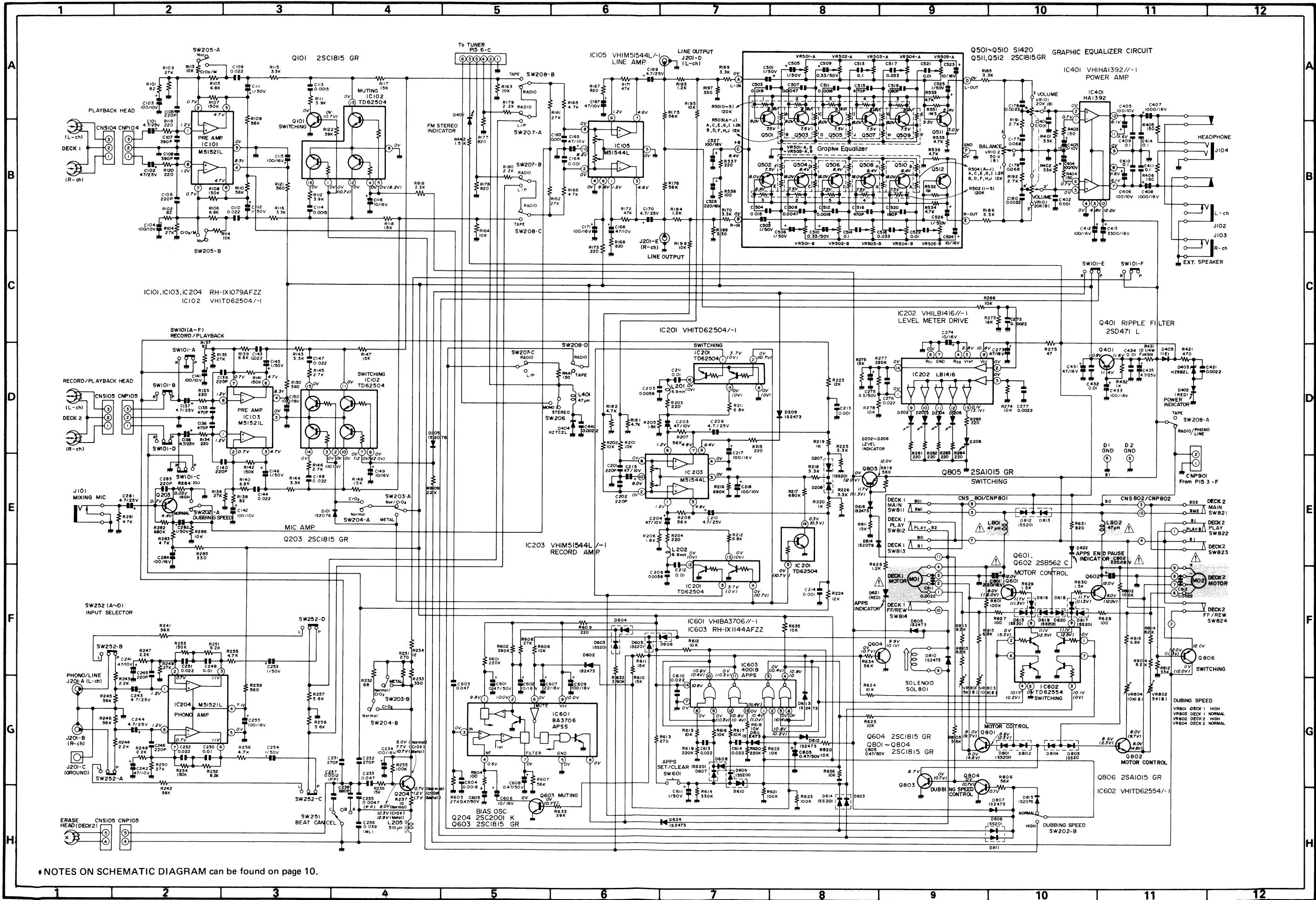


Figure 11 SCHEMATIC DIAGRAM (1/2

QT-90ZR/ZG QT-90ZR/ZG

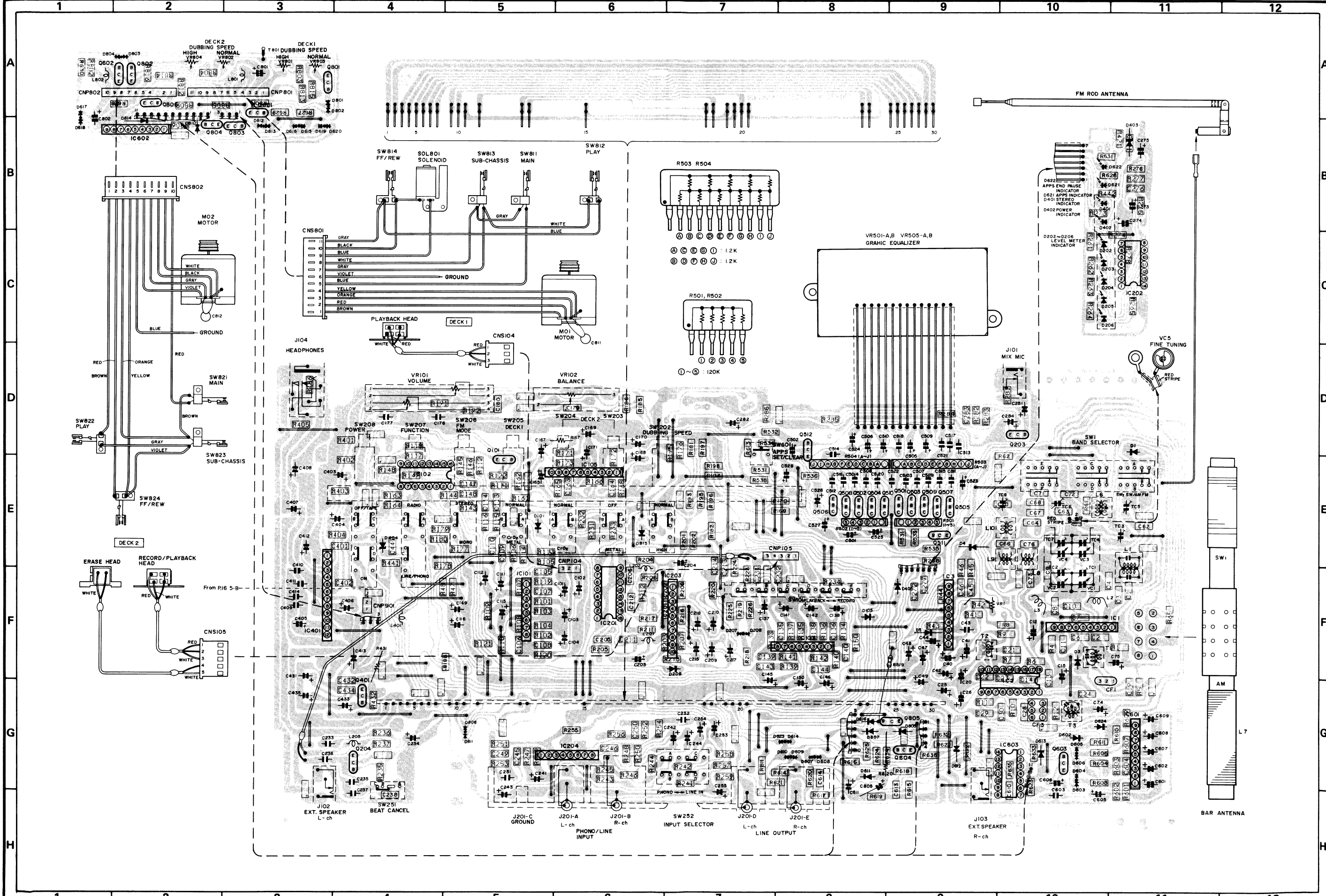


Figure 13 WIRING SIDE OF P.W.BOARD (1/2)

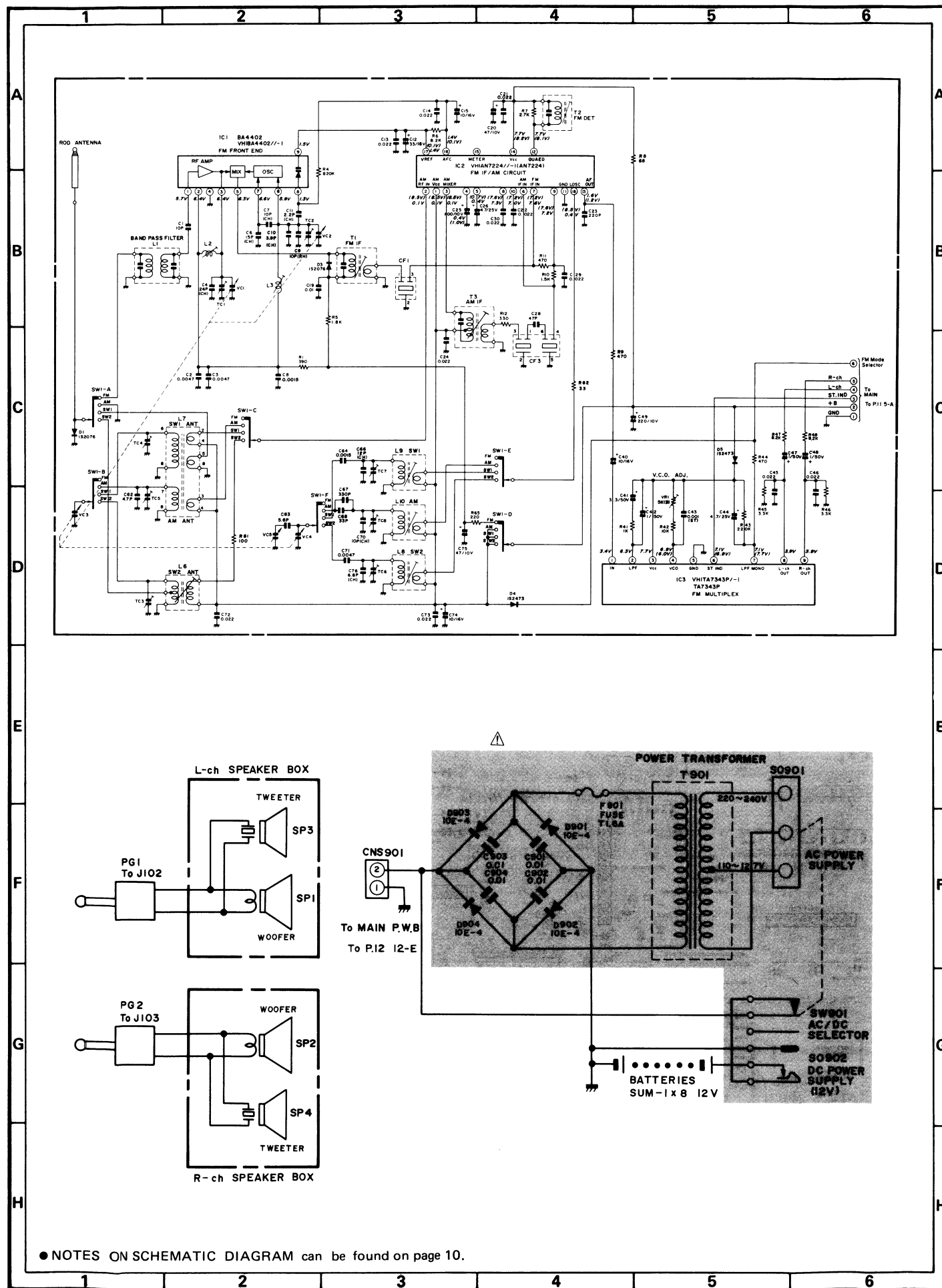


Figure 15 SCHEMATIC DIAGRAM (2/2)
- 15 -

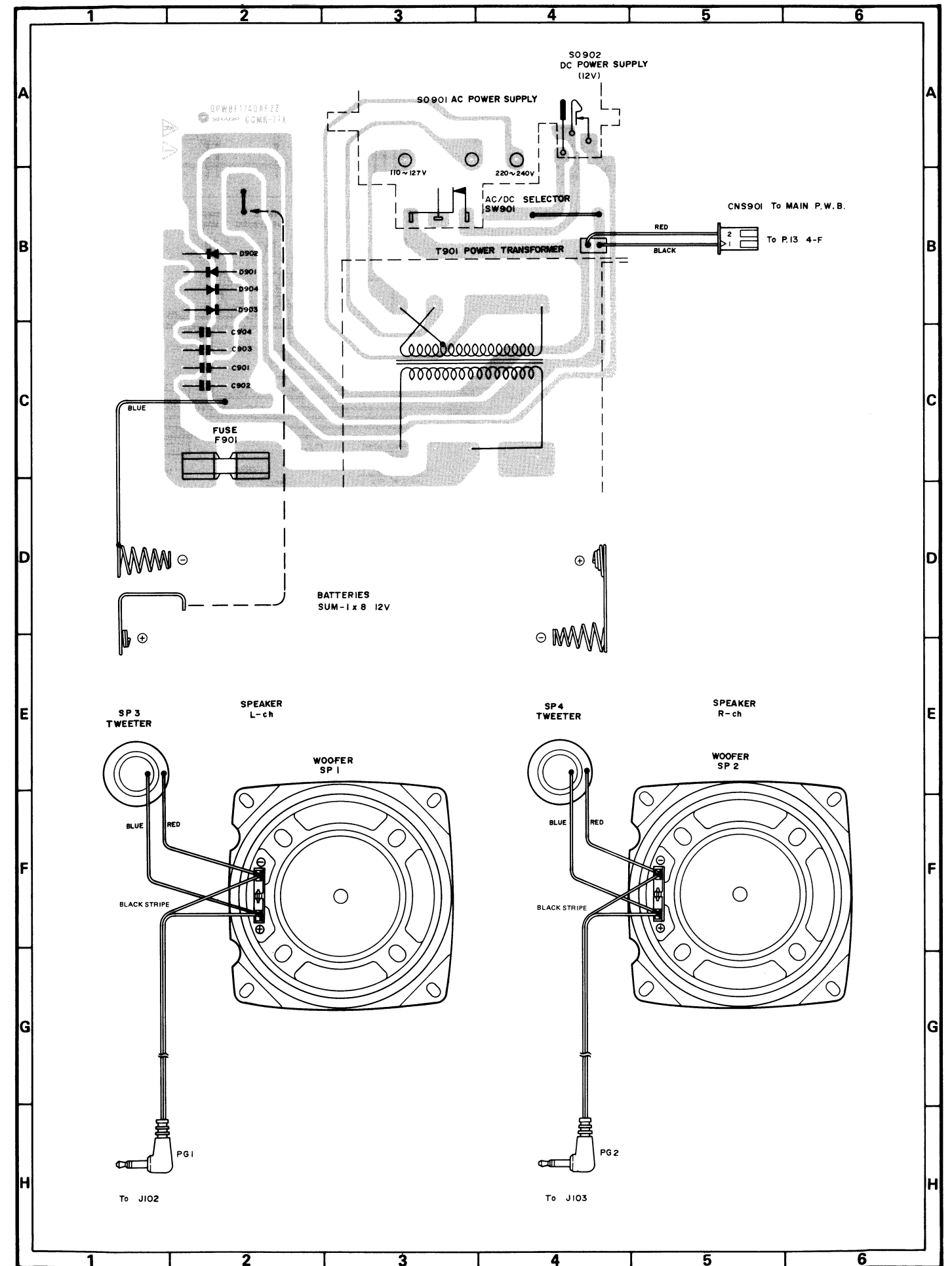


Figure 16 WIRING SIDE OF P.W.BOARD (2/2)
- 16 -

- 17 -

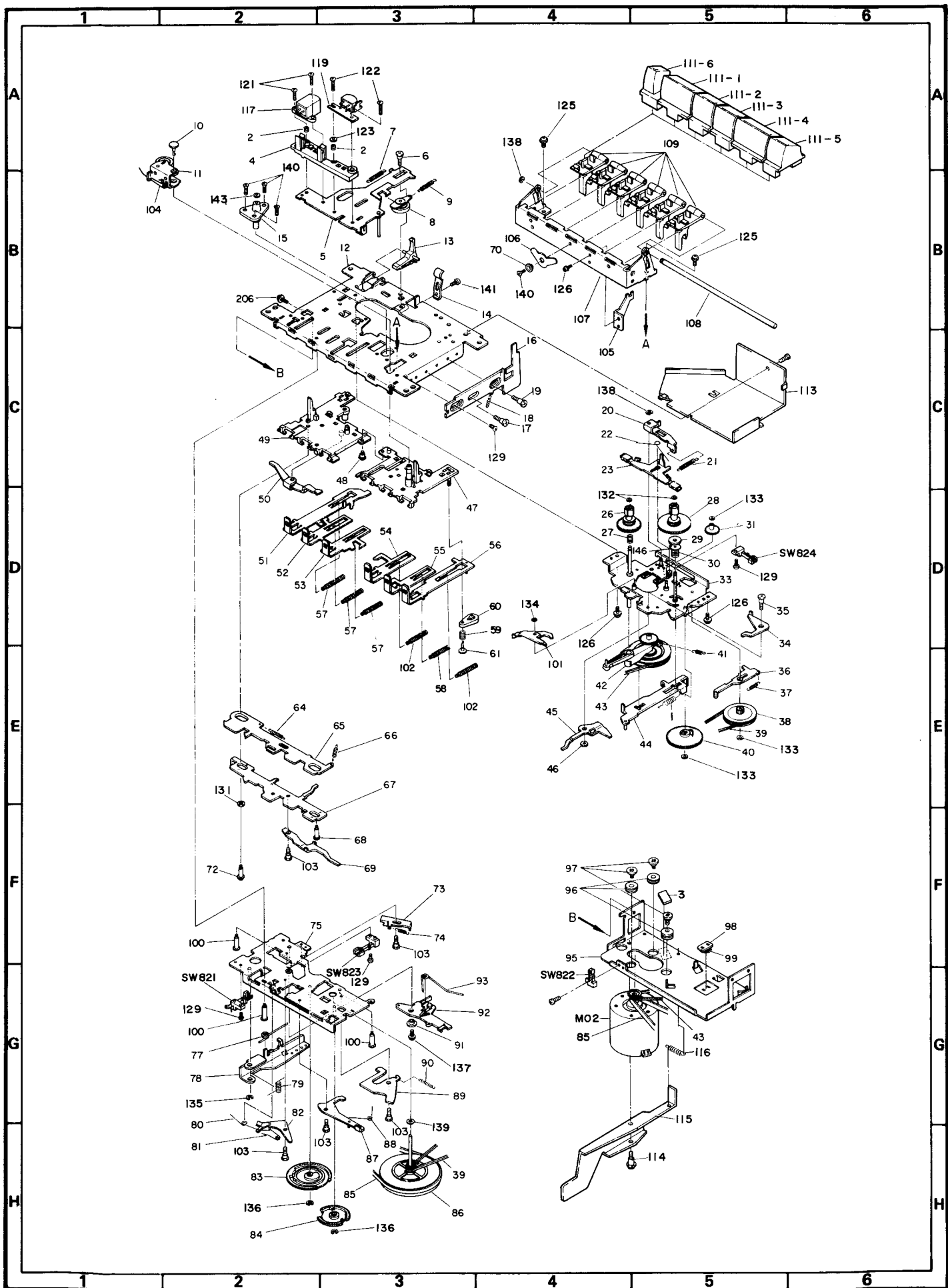


Figure 18. MECHANISM EXPLODED VIEW (DECK 2)

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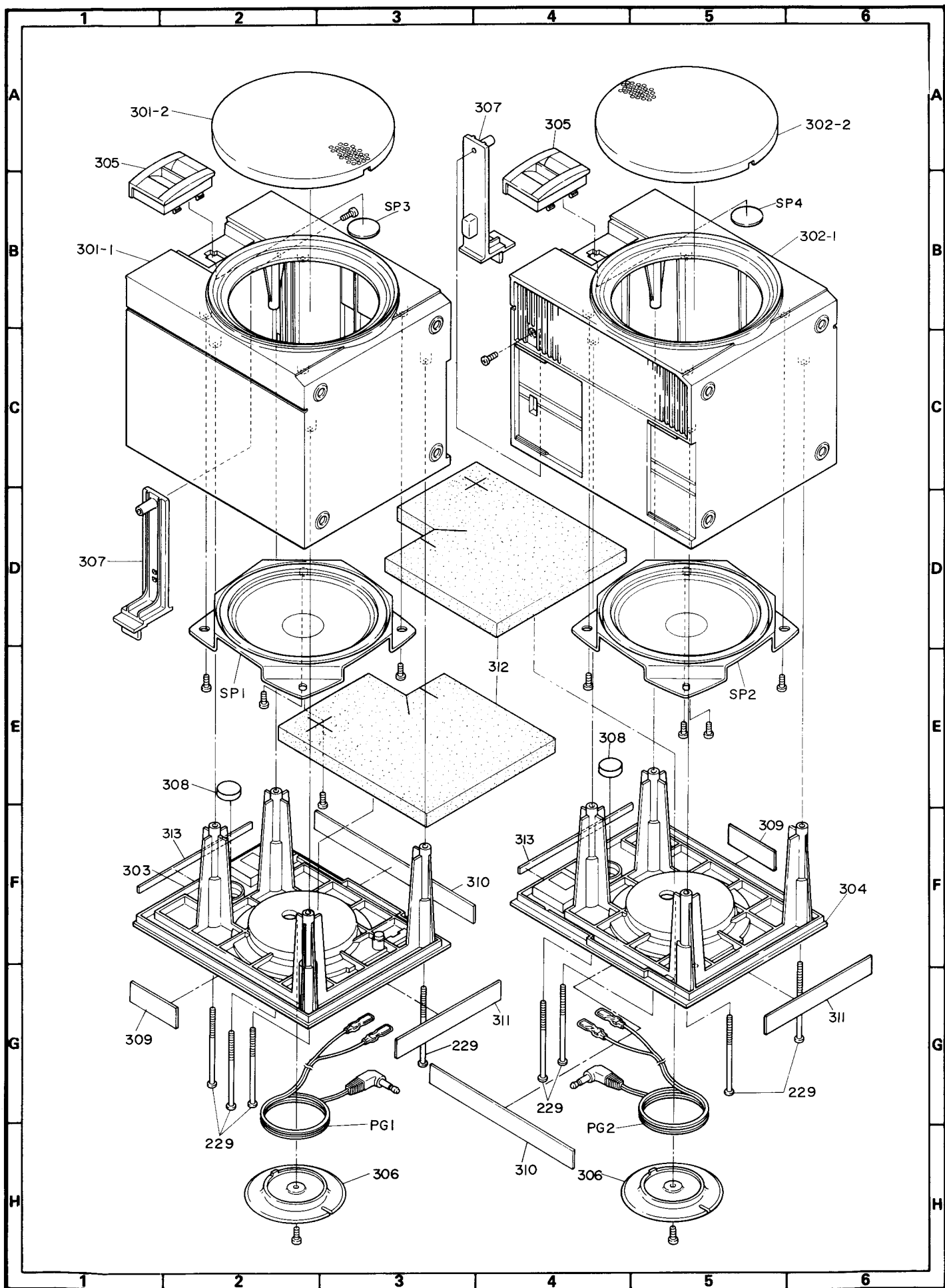


Figure 20 SPEAKER EXPLODED VIEW

REPLACEMENT PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

- | | |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. NO. |
| 3. PART NO. | 4. DESCRIPTION |

NOTE:

Parts marked with "△" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF.NO.	PART NO.	DESCRIPTION	CODE	REF.NO.	PART NO.	DESCRIPTION	CODE
INTEGRATED CIRCUITS				DIODES			
IC1	VHIBA4402//-1	FM Front-End (BA4402)	AF	D1	VHD1S2076//-U	Silicon, 1S2076	AB
IC2	VHIAN7224//-1	FM IF/AM Circuit (AN7224)	AH	D3	VHD1S2076//-U	Silicon, 1S2076	AB
IC3	VHITA7343P/-1	PLL FM Stereo Multiplex (TA7343P)	AG	D4	VHD1S2473//-U	Silicon, 1S2473	AB
IC101	RH-IX1079AFZZ	Deck 1, Pre-Amp. (M51521L)	AG	D5	VHD1S2473//-U	Silicon, 1S2473	AB
IC102	VHITD62504/-1	Muting/Switching (TD62504)	AG	D101	VHD1S2076//-U	Silicon, 1S2076	AB
IC103	RH-IX1079AFZZ	Deck 2, Pre-Amp. (M51521L)	AG	D105	VHD1S2076//-U	Silicon, 1S2076	AB
IC105	VHIM51544L/-1	Line Amp. (M51544L)	AG	D202, D203, D204, D205, D206	RH-PX1058AFSA	LED, Red	AL
IC201	VHITD62504/-1	Switching (TD62504)	AG	D207/208			
IC202	VHILB1416//-1	Level Indicator Drive (LB1416)	AK	D209			
IC203	VHIM51544L/-1	Record Amp. (M51544L)	AG	D401			
IC204	RH-IX1079AFZZ	Phono Amp. (M51521L)	AG	D402			
IC401	VHHA1392//-1	Power Amp. (HA1392)	AR	D403	VHEHZ6B2L//-1	Silicon, Zener, 5.6V~5.9V/400mW, HZ6B2L	AC
IC601	VHIBA3706//-1	APSS Circuit (BA3706)	AL	D404	VHEHZ7C-2L/-1	Silicon, Zener, 7.3V~7.7V/400mW, HZ7C2L	AB
IC602	VHITD62554/-1	Switching (TD62554)	AF	D405	VHD11E1////-1	Silicon, 11E1	AB
IC603	RH-IX1144AFZZ	NOR Gate (TC4001BP), (HD14001BP), (TP4001BN), (GD4001BCN), (MC14001BCP), (HB84001BM-G)	AE	D602	VHD1S2473//-U	Silicon, 1S2473	AB
TRANSISTORS				D603/604	VHD1SS201//-1	Silicon, 1SS201	AB
Q101	VS2SC1815GR-1	Silicon, NPN, 2SC1815 GR	AB	D605/606	VHD1SS201//-1	Silicon, 1SS201	AB
Q203	VS2SC1815GR-1	Silicon, NPN, 2SC1815 GR	AB	D607/608	VHD1SS201//-1	Silicon, 1SS201	AB
Q204	VS2SC2001-K-1	Silicon, NPN, 2SC2001 K	AB	D609/610	VHD1SS200//-1	Silicon, 1SS200	AB
Q401	VS2SD471-L/-A	Silicon, NPN, 2SD471 L	AD	D611	VHDISS2473//-U	Silicon, 1S2473	AB
Q501	VSS1420////-1	Silicon, NPN, S1420	AB	D612	VHD1S2473//-U	Silicon, 1S2473	AB
Q502	VSS1420////-1	Silicon, NPN, S1420	AB	D613	VHD1S2473//-U	Silicon, 1S2473	AB
Q503	VSS1420////-1	Silicon, NPN, S1420	AB	D614/623	VHD1SS201//-1	Silicon, 1SS201	AB
Q504	VSS1420////-1	Silicon, NPN, S1420	AB	D615/616	VHD1SS201//-1	Silicon, 1SS201	AB
Q505	VSS1420////-1	Silicon, NPN, S1420	AB	D617/618	VHD1SS201//-1	Silicon, 1SS201	AB
Q506	VSS1420////-1	Silicon, NPN, S1420	AB	D619/620	VHD1SS200//-1	Silicon, 1SS200	AB
Q507	VSS1420////-1	Silicon, NPN, S1420	AB	D621	Not Available	LED, Red, Part of REF.NO.D202	—
Q508	VSS1420////-1	Silicon, NPN, S1420	AB	D622	Not Available	LED, Red, Part of REF.NO.D202	—
Q509	VSS1420////-1	Silicon, NPN, S1420	AB	D624	VHD1S2473//-U	Silicon, 1S2473	AB
Q510	VSS1420////-1	Silicon, NPN, S1420	AB	D801/802	VHD1SS200//-1	Silicon, 1SS200	AB
Q511	VS2SC1815GR-1	Silicon, NPN, 2SC1815 GR	AB	D803/804	VHD1SS200//-1	Silicon, 1SS200	AB
Q512	VS2SC1815GR-1	Silicon, NPN, 2SC1815 GR	AB	D805	VHD1S2473//-U	Silicon, 1S2473	AB
Q601	VS2SB562-C/-1	Silicon, PNP, 2SB562 C	AD	D807	VHD1S2473//-U	Silicon, 1S2473	AB
Q602	VS2SB562-C/-1	Silicon, PNP, 2SB562 C	AD	D808/811	VHD1SS201//-1	Silicon, 1SS201	AB
Q603	VS2SC1815GR-1	Silicon, NPN, 2SC1815 GR	AB	D810	VHD1S2473//-U	Silicon, 1S2473	AB
Q604	VS2SC1815GR-1	Silicon, NPN, 2SC1815 GR	AB	D812/813	VHD1SS201//-1	Silicon, 1SS201	AB
Q801	VS2SC1815GR-1	Silicon, NPN, 2SC1815 GR	AB	D814	VHD1S2076//-1	Silicon, 1S2076	AB
Q802	VS2SC1815GR-1	Silicon, NPN, 2SC1815 GR	AB	D815	VHD1S2076//-U	Silicon, 1S2076	AB
Q803	VS2SC1815GR-1	Silicon, NPN, 2SC1815 GR	AB	D816	VHD1S2473//-U	Silicon, 1S2473	AB
Q804	VS2SC1815GR-1	Silicon, NPN, 2SC1815 GR	AF	△ D901	VHD10E-4NFD-1	Silicon, 10E-4	AB
Q805	VS2SA1015GR-1	Silicon, PNP, 2SA1015 GR	AB	△ D902	VHD10E-4NFD-1	Silicon, 10E-4	AB
Q806	VS2SA1015GR-1	Silicon, PNP, 2SA1015 GR	AB	△ D903	VHD10E-4NFD-1	Silicon, 10E-4	AB
				△ D904	VHD10E-4NFD-1	Silicon, 10E-4	AB

REF.NO.	PART NO.	DESCRIPTION	CODE
COILS			
L1	RCILA0620AFZZ	FM Band Pass Filter	AC
L2	RCILB0672AFZZ	FM RF	AC
L3	RCILB0672AFZZ	FM Oscillator	AC
L6	RCILA0556AFZZ	SW ₂ Antenna	AD
L7	RCILA0667AFZZ	Bar Antenna, AM/SW ₁	AM
L8	RCILB0625AFZZ	SW ₂ Oscillator	AC
L9	RCILB0624AFZZ	SW ₁ Oscillator	AC
L10	RCILB0623AFZZ	AM Local Oscillation	AC
L201	RCILZ0104AFZZ	Peaking, 6.8mH	AC
L202	RCILZ0104AFZZ	Peaking, 6.8mH	AC
L205	RCILF0072AFZZ	Bias Oscillator, 510μH	AC
L401	RCILF0014AGZZ	Noise Suppressor, 47μH	AB
△ L801	RCILF0014AGZZ	Noise Suppressor, 47μH	AB
△ L802	RCILF0014AGZZ	Noise Suppressor, 47μH	AB

TRANSFORMERS			
T1	RCILIO324AFZZ	FM IF	AC
T2	RCILIO312AFZZ	FM Detector	AC
T3	RCILIO310AFZZ	AM IF	AC
△ T901	RTRNP0995AFZZ	Power	AV

FILTERS			
CF1	RFILF0080AFZZ	Ceramic, 10.7MHz (FM IF)	AD
CF3	RFILA0085AFZZ	Ceramic, 455KHz (AM IF)	AE

CONTROLS			
VC1,2, VC3,4, TC1,2, TC4,7	RVC-R0096AFZZ	Variable Capacitors, Tuning with Trimmers: TC1:FM RF Trimmer TC2:FM Oscillation Trimmer TC4:SW ₁ Antenna Trimmer TC7:SW ₁ Oscillation Trimmer	AN
VC5		Fine Tuning	
TC3		SW ₂ Antenna Trimmer	
TC5		AM Antenna Trimmer	
TC6		SW ₂ Oscillation Trimmer	
TC8	RTO-H1072AFZZ	AM Oscillation Trimmer	AC
VR1	RVR-M0390AFZZ	5 kohms (B), V.C.O. Adjustment	AB
VR101	RVR-Q0136AFZZ	20 kohms (B), Volume Control	AG
VR102	RVR-Q0137AFZZ	50 kohms (B), Balance Control	AE
VR501-A,B VR502-A,B VR503-A,B VR504-A,B VR505-A,B	RVR-Z0160AFZZ	100 kohm(B), 5Segment, Graphic Equalizer Control	AV
VR801			
VR801	RVR-M0431AFZZ	5 kohms (B), Deck1 Dubbing Speed Control (High)	AC
VR802	RVR-M0431AFZZ	5 kohms (B), Deck2 Dubbing Speed Control (High)	AC
VR803	RVR-M0432AFZZ	10 kohm (B), Deck1 Dubbing Speed Control (Normal)	AC
VR804	RVR-M0432AFZZ	10 kohm (B), Deck2 Dubbing Speed Control (Normal)	AC

RESISTOR ARRAY			
R501(1~5)	RR-DZ1012AFZZ	120 kohms×5, ±5%, 1/8W	AB
R502(1~5)	RR-DZ1012AFZZ	120 kohms×5, ±5%, 1/8W	AB

REF.NO.	PART NO.	DESCRIPTION	CODE
R503(A~J)	RR-DZ1013AFZZ	1.2 kohms×5, 12 kohms ×5, ±5%, 1/8W	AB
R504(A~J)	RR-DZ1013AFZZ	1.2 kohms×5, 12 kohms ×5, ±5%, 1/8W	AB

ELECTROLYTIC CAPACITORS

(All electrolytic capacitors are ±20% type.)

C12	RC-EZV336AF1C	33μF, 16V	AB
C15	RC-EZA106AF1C	10μF, 16V	AB
C20	RC-EZA476AF1A	47μF, 10V	AB
C25	RC-EZV107AF1A	100μF, 10V	AB
C26	RC-EZA475AF1E	4.7μF, 25V	AB
C40	RC-EZA106AF1C	10μF, 16V	AB
C41	RC-EZV335AF1H	3.3μF, 50V	AB
C42	RC-EZA105AF1H	1μF, 50V	AB
C44	RC-EZA475AF1E	4.7μF, 25V	AB
C47	RC-EZY105AF1H	1μF, 50V	AB
C48	RC-EZY105AF1H	1μF, 50V	AB
C49	RC-EZV227AF1A	220μF, 10V	AC
C74	RC-EZA106AF1C	10μF, 16V	AB
C75	RC-EZA476AF1A	47μF, 10V	AB
C101	VCEALA1EC475M	4.7μF, 25V	AB
C102	VCEALV1EC475M	4.7μF, 25V	AC
C103	RC-EZA107AF1A	100μF, 10V	AB
C104	RC-EZA107AF1A	100μF, 10V	AB
C111	RC-EZA105AF1H	1μF, 50V	AB
C112	RC-EZA105AF1H	1μF, 50V	AB
C115	RC-EZ1210AFZZ	100μF, 16V	AB
C116	RC-EZA106AF1C	10μF, 16V	AB
C137	VCEALA1EC475M	4.7μF, 25V	AB
C138	VCEALA1EC475M	4.7μF, 25V	AB
C141	RC-EZA107AF1A	100μF, 10V	AB
C142	RC-EZA107AF1A	100μF, 10V	AB
C145	RC-EZA105AF1H	1μF, 50V	AB
C146	RC-EZA105AF1H	1μF, 50V	AB
C149	RC-EZA106AF1C	10μF, 16V	AB
C150	RC-EZ1210AFZZ	100μF, 16V	AB
C165	RC-EZA476AF1A	47μF, 10V	AB
C167	RC-EZA476AF1A	47μF, 10V	AB
C168	RC-EZA476AF1A	47μF, 10V	AB
C169	RC-EZY475AF1E	4.7μF, 25V	AB
C170	RC-EZY475AF1E	4.7μF, 25V	AB
C171	RC-EZ1210AFZZ	100μF, 16V	AB
C171	RC-EZ1210AFZZ	100μF, 16V	AB
C203	RC-EZA106AF1C	10μF, 16V	AB
C204	RC-EZA106AF1C	10μF, 16V	AB
C209	RC-EZY474AF1H	0.47μF, 50V	AB
C210	RC-EZY474AF1H	0.47μF, 50V	AB
C215	RC-EZA105AF1H	1μF, 50V	AB
C217	RC-EZ1210AFZZ	100μF, 16V	AB
C218	RC-EZV107AF1A	100μF, 10V	AB
C234	RC-EZ1210AFZZ	100μF, 16V	AB
C241	RC-EZA476AF1A	47μF, 10V	AB
C242	RC-EZA476AF1A	47μF, 10V	AB
C243	RC-EZA475AF1E	4.7μF, 25V	AB
C244	RC-EZY475AF1E	4.7μF, 25V	AB
C253	RC-EZY105AF1H	1μF, 50V	AB
C254	RC-EZY105AF1H	1μF, 50V	AB
C255	RC-EZ1210AFZZ	100μF, 16V	AB
C273	RC-EZY476AF1C	47μF, 16V	AB
C274	RC-EZY106AF1C	10μF, 16V	AB
C275	RC-EZY335AF1H	3.3μF, 50V	AB
C281	RC-EZA475AF1E	4.7μF, 25V	AB
C282	RC-EZA105AF1H	1μF, 50V	AB
C284	RC-EZ1209AFZZ	100μF, 16V	AB
C403	RC-EZA107AF1A	100μF, 10V	AB
C404	RC-EZA107AF1A	100μF, 10V	AB
C405	RC-EZA107AF1A	100μF, 10V	AB
C406	RC-EZA107AF1A	100μF, 10V	AB

REF.NO.	PART NO.	DESCRIPTION	CODE
C407	RC-EZV108AF1C	1000μF, 16V	AD
C408	RC-EZV108AF1C	1000μF, 16V	AD
C412	RC-EZ1210AFZZ	100μF, 16V	AB
C413	RC-EZ1252AFZZ	3300μF, 16V	AF
C431	RC-EZA476AF1C	47μF, 16V	AB
C433	RC-EZ1210AFZZ	100μF, 16V	AB
C435	RC-EZA475AF1E	4.7μF, 25V	AB
C501	RC-EZY105AF1H	1μF, 50V	AB
C502	RC-EZY105AF1H	1μF, 50V	AB
C505	RC-EZY105AF1H	1μF, 50V	AB
C506	RC-EZY105AF1H	1μF, 50V	AB
C509	RC-EZA334AF1H	0.33μF, 50V	AB
C510	RC-EZA334AF1H	0.33μF, 50V	AB
C523	RC-EZA106AF1C	10μF, 16V	AB
C524	RC-EZA106AF1C	10μF, 16V	AB
C525	RC-EZY105AF1H	1μF, 50V	AB
C526	RC-EZY105AF1H	1μF, 50V	AB
C527	RC-EZ1210AFZZ	100μF, 16V	AB
C528	RC-EZ1227AFZZ	220μF, 16V	AB
C601	RC-EZY474AF1H	0.47μF, 50V	AB
C602	VCEAL1CW106M	10μF, 16V	AB
C605	RC-EZV474AF1H	0.47μF, 50V	AB
C606	RC-EZA106AF1C	10μF, 16V	AB
C607	RC-EZA226AF1C	22μF, 16V	AG
C608	RC-EZY474AF1H	0.47μF, 50V	AB
C609	RC-EZ1210AFZZ	100μF, 16V	AB
C611	RC-EZA105AF1H	1μF, 50V	AB
△ C801	RC-EZ1227AFZZ	220μF, 16V	AB
△ C802	RC-EZ1227AFZZ	220μF, 16V	AB
C805	RC-EZV474AF1H	0.47μF, 50V	AB

CAPACITORS

(The terms CM, SC, ML, ST and PP used here indicate the types of capacitor ceramic type, semiconductor type, mylar type, styrol type and polypropylene type.)

C1	VCCSMF1HL100J	10pF, 50V, ±5%, CM	AA
C2	VCTYMF1HV472K	0.0047μF, 50V, ±10%, SC	AA
C3	VCTYMF1HV472K	0.0047μF, 50V, ±10%, SC	AA
C4	VCCCMF1HH240J	24PF(CH), 50V, ±5%, CM	AA
C6	VCCCMF1HH150J	15PF(CH), 50V, ±5%, CM	AA
C7	VCCCMF1HH100J	10PF(CH), 50V, ±5%, CM	AA
C8	VCTYMF1HV152K	0.0015μF, 50V, ±10%, SC	AA
C9	VCCRMF1HH100J	10PF(RH), 50V, ±5%, CM	AA
C10	VCCCMF1HH3R9C	3.9PF(CH), 50V, ±0.25PF, CM	AA
C11	VCCCMF1HH2R2C	2.2PF(CH), 50V, ±0.25PF, CM	AA
C13	VCTYMF1CY223N	0.022μF, 16V, ±30%, SC	AA
C14	VCTYMF1CY223N	0.022μF, 16V, ±30%, SC	AA
C19	VCTYMF1EX103N	0.01μF, 25V, ±30%, SC	AA
C21	VCTYMF1CY223N	0.022μF, 16V, ±30%, SC	AA
C22	VCTYMF1CY223N	0.022μF, 16V, ±30%, SC	AA
C23	VCKYMF1HB221K	220PF, 50V, ±10%, CM	AA
C24	VCTYMF1CY223N	0.022μF, 16V, ±30%, SC	AA
C28	VCCSMF1HL470J	47PF, 50V, ±5%, CM	AA
C29	VCTYMF1CY223N	0.022μF, 16V, ±30%, SC	AA
C30	VCTYMF1CY223N	0.022μF, 16V, ±30%, SC	AA
C43	VCQSM1HL102J	0.001μF, 50V, ±5%, ST	AB
C45	VCTYMF1CY223N	0.022μF, 16V, ±30%, SC	AA
C46	VCTYMF1CY223N	0.022μF, 16V, ±30%, SC	AA
C62	VCCSMF1HL4R7C	4.7PF, 50V, ±0.25PF, CM	AA
C63	VCCCMF1HH5R6D	5.6PF(CH), 50V, ±0.5PF, CM	AA
C64	VCTYMF1HV152K	0.0015μF, 50V, ±10%, SC	AA
C66	VCCCMF1HH120J	12PF(CH), 50V, ±5%, CM	AA
C67	VCKYMF1HB331J	330PF, 50V, ±5%, CM	AA
C68	VCCSMF1HL330J	33PF, 50V, ±5%, CM	AA
C70	VCCCMF1HH100J	10PF(CH), 50V, ±5%, CM	AA

C71	VCTYMF1HV472K	0.0047μF, 50V, ±10%, SC	AA
C72	VCTYMF1CY223N	0.022μF, 16V, ±30%, SC	AA
C73	VCTYMF1CY223N	0.022μF, 16V, ±30%, SC	AA
C76	VCCCMF1HH6R8D	6.8PF(CH), 50V, ±0.5PF, CM	AA
C105	VCKYMF1HB221K	220PF, 50V, ±10%, CM	AA
C106	VCKYMF1HB221K	220PF, 50V, ±10%, CM	AA
C107	VCKYMF1HB391K	390PF, 50V, ±10%, CM	AA
C108	VCKYMF1HB391K	390PF, 50V, ±10%, CM	AA
C109	VCTYMF1CY223M	0.022μF, 16V, ±20%, SC	AB
C110	VCTYMF1CY223M	0.022μF, 16V, ±20%, SC	AB
C113	VCTYMF1HV152K	0.0015μF, 50V, ±10%, SC	AA
C114	VCTYMF1HV152K	0.0015μF, 50V, ±10%, SC	AA
C135	VCKYMF1HB471K	470PF, 50V, ±10%, CM	AA
C136	VCKYMF1HB471K	470PF, 50V, ±10%, CM	AA
C139	VCKYMF1HB221K	220PF, 50V, ±10%, CM	AA
C140	VCKYMF1HB221K	220PF, 50V, ±10%, CM	AA
C143	VCTYMF1CY223M	0.022μF, 16V, ±20%, SC	AB
C144	VCTYMF1CY223M	0.022μF, 16V, ±20%, SC	AB
C147	VCTYMF1CY223M	0.022μF, 16V, ±20%, SC	AB
C148	VCTYMF1CY223M	0.022μF, 16V, ±20%, SC	AB
C163	VCKYMF1HB102K	0.001μF, 50V, ±10%, CM	AA
C164	VCKYMF1HB102K	0.001μF, 50V, ±10%, CM	AA
C177	VCTYPA1CX683M	0.068μF, 16V, ±20%, SC	AA
C178	VCTYPA1CX683M	0.068μF, 16V, ±20%, SC	AA
C179	VCTYMF1HV222K	0.0022μF, 50V, ±10%, SC	AA
C180	VCTYMF1HV222K	0.0022μF, 50V, ±10%, SC	AA
C201	VCKYMF1HB221K	220PF, 50V, ±10%, CM	AA
C202	VCKYMF1HB221K	220PF, 50V, ±10%, CM	AA
C205	VCTYMF1EX562K	0.0056μF, 25V, ±10%, SC	AA
C206	VCTYMF1EX562K	0.0056μF, 25V, ±10%, SC	AA
C211	VCTYMF1EX103K	0.01μF, 25V, ±10%, SC	AA
C212	VCTYMF1EX103K	0.01μF, 25V, ±10%, SC	AA
C213	VCKYMF1HB102K	0.001μF, 50V, ±10%, CM	AA
C214	VCKYMF1HB102K	0.001μF, 50V, ±10%, CM	AA
C231	VCKYMF1HB271K	270PF, 50V, ±10%, CM	AA
C232	VCKYMF1HB271K	270PF, 50V, ±10%, CM	AA
C233	VCTYPA1EX473K	0.047μF, 25V, ±10%, SC	AA
C235	VCQPKV2AA472J	0.0047μF, 100V, ±5%, PP	AB
C236	VCQYKA1HM393J	0.039μF, 50V, ±5%, ML	AB
C237	VCQPKV2AA122J	0.0012μF, 100V, ±5%, PP	AB
C238	VCKYMF1HB681K	680PF, 50V, ±10%, CM	AA
C245	VCKYMF1HB221K	220PF, 50V, ±10%, CM	AA
C246	VCKYMF1HB221K	220PF, 50V, ±10%, CM	AA
C249	VCTYMF1EX103K	0.01μF, 25V, ±10%, SC	AA
C250	VCTYMF1EX103K	0.01μF, 25V, ±10%, SC	AA
C251	VCTYPA1EX223K	0.022μF, 25V, ±10%, SC	AA
C252	VCTYPA1EX223K	0.022μF, 25V, ±10%, SC	AA
C272	VCTYMF1HV222K	0.0022μF, 50V, ±10%, SC	AA
C276	VCTYMF1CY223N	0.022μF, 16V, ±30%, SC	AA
C277	VCTYMF1HV222K	0.0022μF, 50V, ±10%, SC	AA
C283	VCKYMF1HB221K	220PF, 50V, ±10%, CM	AA
C401	VCKYMF1HB102K	0.001μF, 50V, ±10%, CM	AA
C402	VCKYMF1HB102K	0.001μF, 50V, ±10%, CM	AA
C409	VCTYPA1EX104M	0.1μF, 25V, ±20%, SC	AB
C410	VCTYPA1EX104M	0.1μF, 25V, ±20%, SC	AB
C411	VCTYPA1EX104M	0.1μF, 25V, ±20%, SC	AB
C414	VCTYPA1EX104M	0.1μF, 25V, ±20%, SC	AB
C421	VCTYMF1HV222K	0.0022μF, 50V, ±10%, SC	AA
C432	VCTYMF1EX103N	0.01μF, 25V, ±30%, SC	AA
C434	VCTYMF1EX103N	0.01μF, 25V, ±30%, SC	AA
C441	VCTYMF1HV222K	0.0022μF, 50V, ±10%, SC	AA
C503	VCTYPA1EX183K	0.018μF, 25V, ±10%, SC	AA
C504	VCTYPA1EX183K	0.018μF, 25V, ±10%, SC	AA
C507	VCTYPA1EX472K	0.0047μF, 25V, ±10%, SC	AA
C508	VCTYPA1EX472K	0.0047μF, 25V, ±10%, SC	AA
C511	VCTYPA1EX182K	0.0018μF, 25V, ±10%, SC	AA
C512	VCTYPA1EX182K	0.0018μF, 25V, ±10%, SC	AA
C513	VCTYPA1EX104M	0.1μF, 25V, ±20%, SC	AB

C514	VCTYPA1EX104M	0.1μF, 25V, ±20%, SC	AB
C515	VCKYPA1HB471K	470PF, 50V, ±10%, CM	AA
C516	VCKYPA1HB471K	470PF, 50V, ±10%, CM	AA
C517	VCTYPA1EX333K	0.033μF, 25V, ±10%, SC	AA
C518	VCTYPA1EX333K	0.033μF, 25V, ±10%, SC	AA
C519	VCCSPA1HL181K	180PF, 50V, ±10%, CM	AA
C520	VCCSPA1HL181K	180PF, 50V, ±10%, CM	AA
C521	VCTYPA1EX103K	0.01μF, 25V, ±10%, SC	AA
C522	VCTYPA1EX103K	0.01μF, 25V, ±10%, SC	AA
C603	VCTYPA1EX473K	0.047μF, 25V, ±10%, SC	AA
C604	VCTYMF1HV182K	0.0018μF, 50V, ±10%, SC	AA
C610	VCTYMF1CY223N	0.022μF, 16V, ±30%, SC	AA
C613	VCTYMF1CY223N	0.022μF, 16V, ±30%, SC	AA
C614	VCTYMF1CY223N	0.022μF, 16V, ±30%, SC	AA
C811	VCKYPU1HB222M	0.0022μF, 50V, ±20%, CM	AA
C812	VCKYPU1HB222M	0.0022μF, 50V, ±20%, CM	AA
△ C901	VCKZPV1HF103Z	0.01μF, 50V, +80—20%, CM	AA
△ C902	VCKZPV1HF103Z	0.01μF, 50V, +80—20%, CM	AA
△ C903	VCKZPV1HF103Z	0.01μF, 50V, +80—20%, CM	AA
△ C904	VCKZPV1HF103Z	0.01μF, 50V, +80—20%, CM	AA

RESISTORS

* Tubular type carbon film resistor (1/4W, ±5%) is identified by the symbol MF of the part No. VRD-MF0000000; this MF does not mean feed wire.* Unless otherwise specified lead wired resistors are 1/4W, ±5%, Carbon type.

R1	VRD-MF2EE391J	390 ohms	AA
R4	VRD-MF2EE824J	820 kohms	AA
R5	VRD-MF2EE182J	1.8 kohms	AA
R6	VRD-MF2EE822J	8.2 kohms	AA
R7	VRD-MF2EE272J	2.7 kohms	AA
R8	VRD-MF2EE680J	68 ohms	AA
R9	VRD-MF2EE471J	470 ohms	AA
R10	VRD-MF2EE152J	1.5 kohms	AA
R11	VRD-MF2EE471J	470 ohms	AA
R12	VRD-MF2EE331J	330 ohms	AA
R41	VRD-MF2EE102J	1 kohm	AA
R42	VRD-MF2EE103J	10 kohm	AA
R43	VRD-MF2EE224J	220 kohms	AA
R44	VRD-MF2EE471J	470 ohms	AA
R45	VRD-MF2EE332J	3.3 kohms	AA
R46	VRD-MF2EE332J	3.3 kohms	AA
R47	VRD-MF2EE822J	8.2 kohms	AA
R48	VRD-MF2EE822J	8.2 kohms	AA
R61	VRD-MF2EE101J	100 ohm	AA
R62	VRD-MF2EE330J	33 ohms	AA
R65	VRD-MF2EE221J	220 ohms	AA
R101	VRD-MF2EE820J	82 ohms	AA
R102	VRD-MF2EE820J	82 ohms	AA
R103	VRD-MF2EE273J	27 kohms	AA
R104	VRD-MF2EE273J	27 kohms	AA
R105	VRD-MF2EE682J	6.8 kohms	AA
R106	VRD-MF2EE682J	6.8 kohms	AA
R107	VRD-MF2EE154J	150 kohms	AA
R108	VRD-MF2EE154J	150 kohms	AA
R109	VRD-MF2EE563J	56 kohms	AA
R110	VRD-MF2EE563J	56 kohms	AA
R111	VRD-MF2EE392J	3.9 kohms	AA
R112	VRD-MF2EE392J	3.9 kohms	AA
R113	VRD-MF2EE103J	10 kohm	AA
R114	VRD-MF2EE103J	10 kohm	AA

REF.NO.	PART NO.	DESCRIPTION	CODE
R115	VRD-MF2EE332J	3.3 kohms	AA
R116	VRD-MF2EE332J	3.3 kohms	AA
R117	VRD-MF2EE153J	15 kohms	AA
R118	VRD-MF2EE153J	15 kohms	AA
R119	VRD-MF2EE221J	220 ohms	AA
R120	VRD-MF2EE221J	220 ohms	AA
R121	VRD-MF2EE561J	560 ohms	AA
R122	VRD-MF2EE393J	39 kohms	AA
R133	VRD-MF2EE221J	220 ohms	AA
R134	VRD-MF2EE221J	220 ohms	AA
R135	VRD-MF2EE273J	27 kohms	AA
R136	VRD-MF2EE273J	27 kohms	AA
R137	VRD-MF2EE820J	82 ohms	AA
R138	VRD-MF2EE820J	82 ohms	AA
R139	VRD-MF2EE682J	6.8 kohms	AA
R140	VRD-MF2EE682J	6.8 kohms	AA
R141	VRD-MF2EE154J	150 kohms	AA
R142	VRD-MF2EE154J	150 kohms	AA
R143	VRD-MF2EE332J	3.3 kohms	AA
R144	VRD-MF2EE332J	3.3 kohms	AA
R145	VRD-MF2EE272J	2.7 kohms	AA
R146	VRD-MF2EE272J	2.7 kohms	AA
R147	VRD-MF2EE153J	15 kohms	AA
R148	VRD-MF2EE153J	15 kohms	AA
R150	VRD-MF2EE561J	560 ohms	AA
R161	VRD-MF2EE273J	27 kohms	AA
R162	VRD-MF2EE273J	27 kohms	AA
R163	VRD-MF2EE103J	10 kohm	AA
R164	VRD-MF2EE103J	10 kohm	AA
R165	VRD-MF2EE472J	4.7 kohms	AA
R166	VRD-MF2EE472J	4.7 kohms	AA
R167	VRD-ST2EE821J	820 ohms	AA
R168	VRD-MF2EE821J	820 ohms	AA
R169	VRD-MF2EE332J	3.3 kohms	AA
R170	VRD-MF2EE332J	3.3 kohms	AA
R171	VRD-MF2EE473J	47 kohms	AA
R172	VRD-MF2EE473J	47 kohms	AA
R173	VRD-MF2EE221J	220 ohms	AA
R175	VRD-MF2EE563J	56 kohms	AA
R176	VRD-MF2EE563J	56 kohms	AA
R177	VRD-MF2EE821J	820 ohms	AA
R178	VRD-MF2EE821J	820 ohms	AA
R179	VRD-MF2EE222J	2.2 kohms	AA
R180	VRD-MF2EE222J	2.2 kohms	AA
R181	VRD-MF2EE472J	4.7 kohms	AA
R182	VRD-MF2EE472J	4.7 kohms	AA
R185	VRD-MF2EE332J	3.3 kohms	AA
R186	VRD-MF2EE332J	3.3 kohms	AA
R191	VRD-MF2EE272J	2.7 kohms	AA
R192	VRD-MF2EE272J	2.7 kohms	AA
R193	VRD-MF2EE122J	1.2 kohms	AA
R194	VRD-MF2EE122J	1.2 kohms	AA
R195	VRD-MF2EE103J	10 kohm	AA
R196	VRD-MF2EE103J	10 kohm	AA
R197	VRD-MF2EE331J	330 ohms	AA
R198	VRD-MF2EE331J	330 ohms	AA
R201	VRD-MF2EE103J	10 kohm	AA
R202	VRD-MF2EE103J	10 kohm	AA
R203	VRD-MF2EE221J	220 ohms	AA
R204	VRD-MF2EE221J	220 ohms	AA
R205	VRD-MF2EE182J	1.8 kohms	AA
R206	VRD-MF2EE182J	1.8 kohms	AA
R207	VRD-MF2EE563J	56 kohms	AA
R208	VRD-MF2EE563J	56 kohms	AA
R211	VRD-MF2EE682J	6.8 kohms	AA
R212	VRD-MF2EE682J	6.8 kohms	AA
R215	VRD-MF2EE221J	220 ohms	AA
R216	VRD-MF2EE684J	680 kohms	AA
R217	VRD-MF2EE684J	680 kohms	AA

REF.NO.	PART NO.	DESCRIPTION	CODE	REF.NO.	PART NO.	DESCRIPTION	CODE	REF.NO.	PART NO.	DESCRIPTION	CODE	REF.NO.	PART NO.	DESCRIPTION	CODE
R218	VRD-MF2EE332J	3.3 kohms	AA	R601	VRD-MF2EE224J	220 kohms	AA	△ S0901	QSOCE0561AFZZ	Socket, AC Power Supply	AH	43	94R17100603	Belt, Fast-Forward/Rewind	AG
R219	VRD-MF2EE102J	1 kohm	AA	R602	VRD-MF2EE394J	390 kohms	AA	△ S0902	Not Available	Socket, DC Power Supply	—			Roller Drive	
R220	VRD-MF2EE102J	1 kohm	AA	R603	VRD-MF2EE273J	27 kohms	AA			(12V) Part of		44	94R182009501	Lever, Fast-Foward/Rewind	AF
R223	VRD-MF2EE123J	12 kohms	AA	R604	VRD-MF2EE101J	100 ohm	AA			REF.NO. S0901		45	94R18200805	Lever, Auto	AD
R224	VRD-MF2EE123J	12 kohms	AA	R606	VRD-MF2EE103J	10 kohm	AA	SW1	QSW-S0417AFZZ	Switch, Slide Type	AL	46	94R18200811	Spacer	AA
R225	VRD-MF2EE332J	3.3 kohm	AA	R607	VRD-MF2EE563J	56 kohms	AA	SW101	QSW-S0407AFZZ	Switch, Push Type	AE	47	94R18201001	Base, Fast-Forward Lever/	AF
R226	VRD-MF2EE332J	3.3 kohm	AA	R608	VRD-MF2EE273J	27 kohms	AA	SW202~208	QSW-P0513AFZZ	Switch, Push Type	AR			Stop Lever/Pause Lever	
R231	VRD-MF2EE271J	270 ohms	AA	R609	VRD-MF2EE221J	220 ohms	AA	SW251	QSW-S0267AFZZ	Switch, Slide Type	AD	48	94R18201025	Screw	AA
R232	VRD-MF2EE680J	68 ohms	AA	R610	VRD-MF2EE153J	15 kohms	AA	SW252	QSW-S0309AFZZ	Switch, Slide Type	AF	49	94R18201002	Base, Deck2 Record Lever/	AF
R233	VRD-MF2EE331J	330 ohms	AA	R611	VRD-MF2EE153J	15 kohms	AA	SW601	QSW-K0068AFZZ	Switch, Push Type	AD			Playback Lever/ Rewind	
R234	VRD-MF2EE120J	12 ohms	AA	R612	VRD-MF2EE103J	10 kohm	AA	SW811	94RMSW-1412TNK	Switch, Leaf Type	AE	50	94R18200201	Lever, Deck2 Record Stop	AD
R235	VRD-MF2EE104J	100 kohm	AA	R613	VRD-MF2EE271J	270 ohms	AA	SW812	94RMSW-1412	Switch, Leaf Type	AE	51	94R18201018	Lever, Deck2 Record	AE
R236	VRD-MF2EE153J	15 kohms	AA	R614	VRD-MF2EE334J	330 kohms	AA			NBKU		52	94R18201019	Lever, Playback	AD
R237	VRD-MF2EE100J	10 ohm	AA	R615	VRD-MF2EE103J	10 kohm	AA	SW813	94RMSW-1412TNK	Switch, Leaf Type	AE	53	94R18201020	Lever, Rewind	AD
R241	VRD-MF2EE563J	56 kohms	AA	R616	VRD-MF2EE103J	10 kohm	AA	SW814	94RMSW-1275	Switch, Leaf Type	AE	54	94R18201021	Lever, Fast-Forward	AD
R242	VRD-MF2EE563J	56 kohms	AA	R617	VRD-MF2EE103J	10 kohm	AA	SW821	94RMSW-1412TNK	Switch, Leaf Type	AE	55	94R18201022	Lever, Stop	AD
R243	VRD-MF2EE222J	2.2 kohms	AA	R618	VRD-MF2EE103J	10 kohm	AA	SW822	94RMSW1412	Switch, Leaf Type	AE	56	94R182010501	Lever, Pause	AF
R244	VRD-MF2EE222J	2.2 kohms	AA	R619	VRD-MF2EE224J	220 kohms	AA			NBKU		57	94R18201026	Spring, Deck2 Record Lever/	AC
R245	VRD-MF2EE563J	56 kohms	AA	R620	VRD-MF2EE224J	220 kohms	AA	SW823	94RMSW-1412TNK	Switch, Leaf Type	AE			Playback Lever/Rewind	
R246	VRD-MF2EE563J	56 kohms	AA	R621	VRD-MF2EE104J	100 kohm	AA	SW824	94RMSW1275	Switch, Leaf Type	AE			Lever	
R247	VRD-MF2EE222J	2.2 kohms	AA	R622	VRD-MF2EE103J	10 kohm	AA			NBKU		58	94R18201027	Spring, Stop Lever	AC
R248	VRD-MF2EE222J	2.2 kohms	AA	R623	VRD-MF2EE104J	100 kohm	AA	SW901	—————	Switch, Leaf Type Part of	—	59	94R18201034	Spring, Pause Lock Lever	AC
R249	VRD-MF2EE273J	27 kohms	AA	R624	VRD-MF2EE103J	10 kohm	AA			REF.NO. S0901		60	94R18201041	Lever, Pause Lock	AC
R250	VRD-MF2EE273J	27 kohms	AA	R625	VRD-MF2EE103J	10 kohm	AA					61	94R18201032	Stopper, Pause Lock Lever	AA
R251	VRD-MF2EE822J	8.2 kohms	AA	R626	VRD-MF2EE122J	1.2 kohms	AA					62	94R18201505	Spring, Deck1 Lock Release	AC
R252	VRD-MF2EE822J	8.2 kohms	AA	R627	VRD-MF2EE101J	100 ohm	AA							Lever	
R253	VRD-MF2EE154J	150 kohms	AA	R628	VRD-MF2EE101J	100 ohm	AA	1	94R15591409	Spring, Fast-Forward/Rewind	AC	63	94R18201517	Lever, Deck1 Lock Release	AE
R254	VRD-MF2EE154J	150 kohms	AA	R629	VRD-MF2EE152J	1.5 kohms	AA			Lever		64	94R18201031	Spring, Switch Function Lever	AC
R255	VRD-MF2EE472J	4.7 kohms	AA	R630	VRD-MF2EE152J	1.5 kohms	AA	2	94R14400315	Spring, Head Azimuth	AB	65	94R18201009	Lever, Mechanism Button	AE
R256	VRD-MF2EE472J	4.7 kohms	AA	R631	VRD-MF2EE821J	820 ohms	AA	3	94R4461102	Cushion, Motor Bracket	AA			Function	
R257	VRD-MF2EE562J	5.6 kohms	AA	R632	VRD-MF2EE394J	390 kohms	AA	4	94R18200311	Head Base	AE	66	94R18201052	Spring, Mechanism Button	AC
R258	VRD-MF2EE562J	5.6 kohms	AA	R633	VRD-MF2EE393J	39 kohms	AA	5	94R182003501	Sub-Chassis	AF			Function Lever	
R259	VRD-MF2EE561J	560 ohms	AA	R634	VRD-MF2EE563J	56 kohms	AA	6	94R18200316	Collar Screw	AB	67	94R18201010	Lever, Switch Function	AE
R261	VRD-MF2EE221J	220 ohms	AA	R635	VRD-MF2EE103J	10 kohm	AA	7	94R18200302	Spring, Sub-Chassis	AC	68	94R18201029	Screw	AA
R262	VRD-MF2EE221J	220 ohms	AA	R636	VRD-ST2EE103J	10 kohm	AA	8	94R182003301	Idler, Playback	AH	69	94R18201011	Lever, Cassett Eject Kick	AD
R263	VRD-MF2EE221J	220 ohms	AA	R801	VRD-MF2EE104J	100 kohm	AA	9	94R18200312	Spring, Playback Idler	AC	70	94R18201051	Collar Screw	AA
R264	VRD-MF2EE221J	220 ohms	AA	R802	VRD-MF2EE104J	100 kohm	AA	10	94R17152015	Stopper, Function Lever	AA	71	94R18201013	Lever, Deck1 Rock Release	AD
R265	VRD-MF2EE221J	220 ohms	AA	R803	VRD-MF2EE822J	8.2 kohms	AA	11	94R182004301	Pinch roller	AH			Function	
R266	VRD-MF2EE103J	10 kohm	AA	R804	VRD-MF2EE822J	8.2 kohms	AA					72	94R18201030	Screw	AA
R273	VRD-MF2EE183J	18 kohms	AA	R805	VRD-MF2EE563J	56 kohms	AA	12	94R18200101	Main Chassis	AU	73	94R18201121	Lever, Deck2 Record Switch	AD
R274	VRD-MF2EE103J	10 kohm	AA	R806	VRD-MF2EE563J	56 kohms	AA	13	94R18000201	Deck2 Lever, Record Safety	AC	74	94R17001612	Spring, Deck2 Record Switch	AC
R275	VRD-MF2EE470J	47 ohms	AA	R809	VRD-MF2EE222J	2.2 kohms	AA	14	94R18200107	Spring, Pack Hold	AD			Lever	
R276	VRD-MF2EE153J	15 kohms	AA	R811	VRD-MF2EE153J	15 kohms	AA	15	94R18201207	Bracket, Flywheel	AG	75	94R182011501	Guide, Mechanism Lever	AD
R277	VRD-MF2EE224J	220 kohms	AA	R812	VRD-MF2EE333J	33 kohms	AA	16	94R18201420	Lever, Cassette Eject	AD	77	94R18201125	Spring, Deck2 Record Switch	AC
R278	VRD-MF2EE103J	10 kohm	AA	R813	VRD-MF2EE822J	8.2 kohms	AA	17	94R18201418	Collar Screw	AB			Function	
R281	VRD-MF2EE472J	4.7 kohms	AA	R814	VRD-MF2EE822J	8.2 kohms	AA	18	94R15590306	Spring, Head Base	AC	78	94R18201122	Lever, Deck2 Record Switch	AE
R282	VRD-MF2EE684J	680 kohms	AA	R815	VRD-MF2EE682J	6.8 kohms	AA	19	94R18201419	Collar Screw	AB			Function	
R283	VRD-MF2EE472J	4.7 kohms	AA	R816	VRD-MF2EE682J	6.8 kohms	AA	20	94R18200905	Lever, Control	AD	79	94R18201124	Spring, Deck2 Record Switch	AC
R284	VRD-MF2EE101J	100 ohm	AA	R818	VRD-MF2EE222J	2.2 kohms	AA	21	94R18200913	Spring, Control Lever	AC			Function Lever	
R285	VRD-MF2EE331J	330 ohms	AA	R819	VRD-ST2EE563J	56 kohms	AA	22	94R18200902	Spring, Brake	AC	80	94R18201131	Spring, Playback Gear	AC
R286	VRD-MF2EE103J	10 kohm	AA	R820	VRD-ST2EE103J	10 kohm	AA	23	94R182009301	Lever, Brake	AG	81	94R18201126	Spring, Playback Release	AC
R401	VRD-MF2EE333J	33 kohms	AA					25	94R17001513	Core, Solenoid	AF			Lever	
R402	VRD-MF2EE333J	33 kohms	AA					26	94R182006302	Turntable, Take-Up	AG	82	94R182011506	Lever, Playback Release	AF
R403	VRD-MF2EE151J	150 ohms	AA					27	94R18200604	Spring, Back Tension	AC	83	94R18201103	Gear, Playback	AD
R404	VRD-MF2EE151J	150 ohms	AA	CNS104	CCNCW239CAF27	3Pin Socket Assembly	AD	28	94R182006301	Turntable, Supply	AG	84	94R18201104	Gear, Pause	AD
R405	VRD-MF2EE151J	150 ohms	AA	CNS105	CCNCW241EAF12	5Pin Socket Assembly	AF	29	94R18200814	Pad, Sensor	AB	85	94R18201309	Belt, Flywheel Drive	AG
R406	VRD-MF2EE151J	150 ohms	AA	CNS801	QCNW-2160AFZZ	11Pin Socket Assembly	AG	30	94R18200817	Spring, Sensor Pad	AC	86	94R182012301	Flywheel	AN
△ R421	VRD-MF2EE471J	470 ohms	AA	CNS802	QCNW-2161AFZZ	10Pin Socket Assembly	AG	31	94R18000610	Gear, Fast-Forward	AD	87	94R182011503	Lever, Pause Gear Lock	AF
R431	VRG-SA2EC100J	10 ohm, 1/4W, ±5%, Fusible	AB	CNS901	QCNW-2164AFZZ	2Pin Socket Assembly	AC	33	94R182005501	Base, Turntable	AG	88	94R18201127	Spring, Pause Gear Lock Lever	AC
R432	VRD-MF2EE102J	1 kohm	AA	CNP104	QCNCM136CAFZZ	Plug, 3 Pin	AB	34	94R18200910	Lever, Playback Idler Kick	AD	89	94R182011504	Lever, Pause Function	AF
R441	VRD-MF2EE151J	150 ohms	AA	CNP105	QCNCM184EAFZZ	Plug, 5Pin	AC	35	94R18200818	Collar Screw	AB	90	94R17000932	Spring, Pause Function Lever	AC
R442	VRD-MF2EE152J	1.5 kohms	AA	CNP801	QCNCM592LAFZZ	Plug, 11Pin	AC	36	94R18200803	Lever, Sensor	AD	91	94R18201130	Spacer	AB
R531	VRD-MF2EE105J	1 Mohm	AA	CNP802	QCNCM591KAFZZ	Plug, 10Pin	AC	37	94R18200810	Spring, Sensor Lever	AC	92	94R182011505	Lever, Playback Switch	AF
R532	VRD-MF2EE105J	1 Mohm	AA	CNP901	QCNCM462BAFZZ	Plug, 2Pin	AA	38	94R18200801	Pulley	AD	93	94R18201129	Spring, Playback Switch Lever	AC
R533	VRD-MF2EE472J	4.7 kohms	AA	△ F901	QFS-C162EAFNI	Fuse, T1.6A/250V	AD	39	94R18200809	Belt, Fast-Forward/Playback	AG	95	94R18201301	Bracket, Motor	AG
R534	VRD-MF2EE472J	4.7 kohms	AA	J101	QJAKE0124AFZZ	Jack, Mixing Microphone	AC			Drive		96	94R18201306	Cushion, Motor	AA
R535	VRD-MF2EE472J	4.7 kohms	AA	J102	QJAKE0124AFZZ	Jack, Ext. Speaker (Left)	AC	40	94R18200802	Gear, Cam	AD	97	94R18201305	Screw	AA
R536	VRD-MF2EE472J	4.7 kohms	AA	J103	QJAKE0124AFZZ	Jack, Ext. Speaker (Right)	AC	41	94R18200706	Spring, Fast-Forward/Rewind	AC	98	94R18201302	Plate, Flywheel	AA
R537	VRD-MF2EE221J	220 ohms	AA	J104	QJAKJ0134AFZZ	Jack, Headphone	AF			Roller		99	94R18201136	Spring, Flywheel Plate	AC
R538	VRD-MF2EE101J	100 ohm	AA	J201	QJAKZ0171AFZZ	Jack, Phono/Line Input, Line	AH	42	94R182007301	Roller, Fast-Forward/Rewind	AK				
						Output									

MECHANICAL PARTS

CIRCUIT PARTS

REF.NO.	PART NO.	DESCRIPTION	CODE
100	94R18201137	Screw	AA
101	94R18200911	Lever, Kick	AC
102	94R18000903	Spring, Fast-Forward Lever/ Pause Lever	AC
103	94R18200819	Collar Screw	AA
104	94R18200403	Spring, Pinch Roller	AC
105	94R18201035	Stopper, Mechanism Button Lever	AB
106	94R18201036	Stopper, Fast-Forward/ Rewind	AB
107	94R18201015	Flame, Mechanism Button	AE
108	94R18201016	Shaft, Mechanism Button Lever	AC
109	94R18201028	Lever, Mechanism Button	AC
111	JBTN-0207AFZZ	Deck2 Mechanism Button Assembly	AL
111-1	JKNBM0520AFSB	Button, Playback	AD
111-2	JKNBM0521AFSA	Button, Rewind	AD
111-3	JKNBM0522AFSA	Button, Fast-Forward	AD
111-4	JKNBM0523AFSA	Button, Stop	AD
111-5	JKNBM0524AFSA	Button, Pause	AD
111-6	JKNBM0525AFSB	Button, Record	AD
112	JBTN-0206AFZZ	Deck1 Mechanism Button Assembly (111-1~111-5)	AL
113	LANGZ0116AFFW	Bracket, Wire	AC
114	LX-HZ0085AFZZ	Screw, 4mm Dia. × 20mm	AB
115	MLEVF1559AFFW	Lever, Record/Playback Change	AC
116	MSPRT1047AFFJ	Spring, Record/Playback Change Lever	AA
117	RHEDA0119AFZZ	Deck2 Head, Erase	AH
118	RHEDF0087AFZZ	Deck1 Head, Playback	AH
119	RHEDH0128AFZZ	Deck2 Head, Record/ Playback	AN
120	MLEVP0482AFZZ	Deck1 Head, Dummy	AB
121	94R90060000	Pan Screw, 2mm Dia. × 8mm	AA
122	94R92120000	Pan Screw, 2mm Dia. × 7mm	AA
123	94R93160000	Washer, 2.1mm Dia. × 5mm Dia. × 0.2mm	AA
125	94R90960000	Tams Screw, 2.6mm Dia. × 4mm	AA
126	94R90770000	Tams Screw, 2mm Dia. × 4mm	AA
129	94R90020000	Pan Screw, 2mm Dia. × 4mm	AA
131	94R93500000	Washer	AA
132	94R97930000	Washer, Nylon, 1.6mm Dia. × 3.4mm Dia. × 0.3mm	AA
133	94R94210000	Washer, Nylon, 1.2mm Dia. × 3mm Dia. × 0.25mm	AA
134	94R94990000	"E" Stop Ring, 1.2mm Dia.	AA
135	94R95050000	"E" Stop Ring, 3.0mm Dia.	AA
136	94R95020000	"E" Stop Ring, 2.0mm Dia.	AA
137	94R90980000	Tams Screw, 2.6mm Dia. × 6MM	AA
138	94R95000000	"E" Stop Ring, 1.5mm Dia.	AA
139	94R97880000	Washer, Nylon, 2.2mm Dia. × 3.8mm Dia. × 0.4mm	AA
140	94R95620000	Flat Screw, 2mm Dia. × 3mm	AA
141	94R91900000	Taptite Screw, 2.6mm Dia. × 3mm	AA
143	94R93720000	Washer, Nylon, 2mm Dia. × 5mm Dia. × 0.5mm	AA
145	94R90780000	Tams Screw, 2mm DIA. × 5mm	AA
146	94R97910000	Washer, Nylon, 5.2mm Dia. × 8mm Dia. × 0.13mm	AA

REF.NO.	PART NO.	DESCRIPTION	CODE
CABINET PARTS			
201	CCAB-1278AF01	Front Cabinet Combined Assembly (QT-90ZR)	BA
201	CCAB-1278AF03	Front Cabinet Combined Assembly (QT-90ZG)	BA
201-1	GCAB-1278AFSA	Front Cabinet Assembly (QT- 90ZR)	BA
201-1	GCAB-1278AFSB	Front Cabinet Assembly (QT- 90ZG)	BA
201-1-1	Not Available	Front Cabinet (QT-90ZR)	-
201-1-1	Not Available	Front Cabinet (QT-90ZG)	-
201-1-2	HDALP0534AFSA	Plate, Dial Scale (QT-90ZR)	AH
201-1-2	HDALP0534AFSB	Plate, Dial Scale (QT-90ZG)	AH
201-1-3	HDECA0556AFSC	Decoration Plate, Cabinet (QT- 90ZR)	AG
201-1-3	HDECA0556AFSB	Decoration Plate, Cabinet (QT- 90ZG)	AG
201-1-4	HINDP0785AFSA	Plate, Graphic Equalizer	AE
201-1-5	PCOVM9056AF00	Cover, Graphic Equalizer	AA
201-3	PFLT-0589AF00	Felt, Leg	AA
201-4	PSLDC7073AFZZ	Plate, Shield	AB
201-5	TLABZ0130AFZZ	Plate, Mirror	AA
202	CCABB1854AF05	Back Cabinet Assembly	AT
202-1	Not Available	Back Cabinet	-
202-2	PSLDM9105AFZZ	Plate, Shield	AE
202-3	PCUSS0235AFZZ	Cushion, Battery	AB
202-4	LANGQ0897AFZZ	Bracket, Telescopic Rod Antenna	AB
203	CSPRT0750AF12	Dial Cord Spring Assembly	AD
203-1	MSPRT0750AFFW	Spring, Dial Stringing	AA
204	GFTAB1152AFSB	Lid, Battery Compartment	AE
205	GFTAC1370AFSA	Deck1 Cassette Holder Lid Assembly (QT-90ZR)	AP
205	GFTAC1370AFSB	Deck1 Cassette Holder Lid Assembly (QT-90ZG)	AP
205-1	GFTAC1371AFSA	Lid, Cassette Holder (QT-90ZR)	AP
205-1	GFTAC1371AFSB	Lid, Cassette Holder (QT-90ZG)	AP
205-2	GFTAC1360AFSA	Transparent Plate, Cassette Holder Lid	AK
206	GFTAC1361AFSD	Deck2 Cassette Holder Lid Assembly (QT-90ZR)	AP
206	GFTAC1361AFSB	Deck2 Cassette Holder Lid Assembly (QT-90ZG)	AP
206-1	GFTAC1335AFSB	Lid, Cassette Holder (QT-90ZR)	AK
206-1	GFTAC1335AFSD	Lid, Cassette Holder (QT-90ZG)	AK
206-2	GFTAC1362AFSB	Transparent Plate, Cassette Holder Lid	AH
207	HINDP0890AFSA	Label, Specifications (QT-90ZR)	AB
207	HINDP0897AFSA	Label, Specifications (QT-90ZG)	AB
208	HSSND0332AFSA	Dial Pointer	AD
209	JHNDG1094AFSB	Handle (QT-90ZR)	AP
209	JHNDG1094AFSD	Handle (QT-90ZG)	AP
210	JKNBK0301AFSA	Knob, Tuning Control (QT-90ZR)	AD
210	JKNBK0301AFSB	Knob, Tuning Control (QT-90ZG)	AC

REF.NO.	PART NO.	DESCRIPTION	CODE	REF.NO.	PART NO.	DESCRIPTION	CODE
211	JKNBM0518AFSA	Button, Function/FM Mode/ Deck1 Tape Selector/Deck2 Tape Selector	AD	301-1	Not Available	Speaker Box, Left (QT-90ZR)	—
212	JKNBM0518AFSB	Button, Power	AB	301-1	Nor Available	Speaker Box, Left (QT-90ZG)	—
213	JKNBM0518AFSC	Button, Dubbing Speed	AB	301-2	HPNC-0183AFSB	Punching Metal, Woofer (QT-90ZR)	AG
214	JKNBM0539AFSA	Knob, Band Selector	AC	301-2	HPNC-0183AFSA	Punching Metal, Woofer (QT-90ZG)	AH
215	JKNBZ0338AFSA	Knob, Volume/Balance Control	AD	302	GCAB-1280AFSA	Speaker Box Assembly, Right (QT-90ZR)	AW
216	JKNBZ0339AFSA	Button, Dubbing Start	AC	302	GCAB-1222AFSA	Speaker Box Assembly, Right (QT-90ZG)	AY
217	KCOUB0154AFZZ	Digital Tape Counter	AH	302-1	Not Available	Speaker Box, Right (QT-90ZR)	—
221	LANGT1236AFFW	Bracket, Digital Tape Counter	AC	302-1	Not Available	Speaker Box, Right (QT-90ZG)	—
222	LANGT1239AFFW	Bracket, Dubbing Start Shaft	AC	302-2	HPNC-0183AFSB	Punching Metal, Woofer (QT-90ZR)	AG
223	LHLDL1059AFSA	Holder, Handle	AB	302-2	HPNC-0183AFSA	Punching Metal, Woofer (QT-90ZG)	AH
224	LHLDW1075AFZZ	Holder, Wire 60mm	AA	303	GCABB1780AFSB	Speaker Back Cabinet, Left	AL
225	LHLDX1063AFSA	Holder, Cassette	AE	304	GCABB1781AFSB	Speaker Back Cabinet, Right	AL
226	LHLDZ1229AFSA	Holder, Volume Control	AD	305	HDECQ0224AFSA	Decoration Plate, Tweeter	AE
227	LHLDZ1230AFZZ	Holder, Graphic Equalizer	AD	306	LHLDZ1224AFSB	Holder, Speaker Cord	AC
228	LRALP0059AFSA	Rail, Dial Pointer	AG	307	MLEVP0459AFSB	Lever, Speaker Lock/Release	AD
229	LX-CZ0011AFZZ	Taptite Screw, 3mm Dia. × 65mm	AA	308	PCOVPI211AFSB	Cover, Speaker Back Cabinet	AC
230	LX-CZ0032AFFN	Taptite Screw, 3mm Dia. × 16mm, Nichel	AA	309	PFLT-0590AF00	Felt, 14mm × 40mm, Black	AA
231	LX-LZ0051AF00	Push Rivet	AA	310	PFLT-0591AF00	Felt, 14mm X 140mm, Black	AA
232	MLEVF1558AFF	Lever, Dubbing Start	AD	311	PFLT-0593AF00	Felt, 14mm × 90mm, Black	AA
233	MLEVP0488AFSA	Lever, Cassette Holder Lock	AC	312	PKYU-0075AFZZ	Acoustic Material	—
234	MLIFP0030AFZZ	Damper	AE	313	PFLT-0617AF00	Felt, 7mm × 110mm, Black	AA
235	MRODM0086AFFW	Rod, Dubbing Start	AC	PG1,2	QCNW-2266AFZZ	Cord, Speaker	AG
236	MSPRC0439AFFJ	Spring, Battery (+, -)	AA	SP1	VSP0010PB86SA	Speaker, Woofer	AS
237	MSPRC0409AFFJ	Spring, Battery (-)	AB	SP2	VSP0010PB86SA	Speaker, Woofer	AS
238	MSPRC0421AFFW	Spring, Battery (+)	AB	SP3	RALMB0057AFZZ	Speaker, Ceramic Tweeter	AC
239	MSPRD0532AFFJ	Spring, Cassette Holder Opening (Left)	AB	SP4	RALMB0057AFZZ	Speaker, Ceramic Tweeter	AC
240	MSPRD0533AFFJ	Spring, Cassette Holder Opening (Right)	AB		SPAKA1118AFZZ	Packing Add. (Top)	AF
241	MSPRD0539AFFJ	Spring, Dubbing Start	AB		SPAKA1119AFZZ	Packing Add. (Bottom)	AF
242	NBLTK0278AFZZ	Belt, Digital Tape Counter	AB		SPAKA1123AFZZ	Packing Add. (Speaker)	AE
243	NDRM-0196AFZZ	Drum, Dial Scale	AC		SPAKA1125AFZZ	Packing Add. (Battery)	AD
244	NPLYB0051AFZZ	Pulley, Dial Stringing	AA		SPAKC2764AFZZ	Packing Case (QT-90ZR)	AL
245	NPLYB0071AFZZ	Pulley, Dial Stringing	AB		SPAKC2771AFZZ	Packing Case (QT-90ZG)	AL
246	NSFTZ0113AFFW	Shaft, Tuning Control	AE		SPAKP0405AFZZ	Polyethylene Bag, Unit	AD
248	PCOVW9127AF00	Cover, Terminal	AB		SSAKA0018AFZZ	Polyethylene Bag, AC Power Supply Cord	AA
249	PRDAR0331AFFW	Heat Sink	AC		SSAKA0035AFZZ	Polyethylene Bag, Operation Manual	AA
250	QANTRO130AFZZ	Rod Antenna	AN		SSAKH0172AFZZ	Polyethylene Bag, Speaker Cord, AC Power Supply (Refer to Page 8)	AM
251	QFSDH02051AFZZ	Holder, Fuse	AA		QACCZ0051AF00	Cord, AC Power Supply (Refer to Page 8)	AH
253	LANGF0853AFFW	Bracket, Tuning Control Shaft	AC		QACCZ0057AF00	Cord, AC Power Supply (Refer to Page 8)	AK
254	LANGH0154AFFW	Bracket, Power Transformer	AC		QPLGA0251AFZZ	Adaptor, AC Power Supply Cord	AE
255	GCOVH1179AFSH	Cover, AC Power Supply Socket	AB		RTPEK0101AFZZ	Cassette Tape	AK
258	JKNBK0316AFSA	Knob, Fine Tuning Control (QT-90ZR)	AC		TCAUA0178AFZZ	Caution Label, AC Power Supply	AA
258	JKNBK0316AFSB	Knob, Fine Tuning Control (QT-90ZG)	AD		TGANE1121AFZZ	Warranty Card (For PX)	AC
259	JKNBM0526AFSA	Button, APPS	AC		TGANE1124AFZZ	Warranty Card (For SCA)	AC
260	LBOSA0060AFFW	Shaft, Band Selector Knob	AC		TINSZ0601AFZZ	Operation Manual	AH
261	LX-BZ0322AFF	Screw, 2mm Dia.	AA		TLABZ0118AFZZ	Label, N.T.S.	AB
262	PCOVPI214AFZZ	Cover, Band Selector Knob	AA		TLABZ0135AFZZ	Label, EGC	AA
264	QLUGP0109CEFW	Lug Terminal	AA		TLABZ0535AFZZ	Label, POP	AC
265	HINDP0637AFSB	Label, Warning (For PX)	AB		UBATU0009AGZZ	Battery	AC
265	HINDP0636AFSB	Label, Warning (For Others)	AB				
SPEAKER PARTS							
301	GCAB-1279AFSA	Speaker Box Assembly, Left (QT-90ZR)	AW				
301	GCAB-1221AFSA	Speaker Box Assembly, Left (QT-90ZG)	AY				

SPEAKER PARTS

301	GCAB-1279AFSA	Speaker Box Assembly, Left (QT-90ZR)	AW
301	GCAB-1221AFSA	Speaker Box Assembly, Left (QT-90ZG)	AY